CDX-GT35U/GT39U/ GT39UE

SERVICE MANUAL

Ver. 1.1 2010.02

AEP Model
UK Model
CDX-GT35U/GT39U
E Model
CDX-GT35U
Russian Model
CDX-GT35U/GT39UE



Photo: CDX-GT35U

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT33U
CD Drive Mechanism Type	MG-101Y-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

Tuner section
FM
Tuning range:
AEP, UK, GT35U: Russian model:
87.5 – 108.0 MHz
E, Argentina model:
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
GT39UE:
FM1/FM2: 87.5 – 108.0 MHz (at 50 kHz step)
FM3: 65.0 – 74.0 MHz (at 30 kHz step)
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 150 kHz
Usable sensitivity: 10 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 70 dB (mono)
Separation: 40 dB at 1 kHz
Frequency response: 20 – 15,000 Hz

AM
E, Argentina model:
Tuning range:
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
AM tuning interval:
9 kHz/10 kHz switchable
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Sensitivity: 26 µV

MW/LW
AEP, UK, Russian model:
Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 25 kHz
Sensitivity: MW: 26 µV, LW: 45µV

CD player section
Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit

USB Player section
Interface: USB (Full-speed)
Maximum current: 500 mA

Power amplifier section
Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output:
E model: 52 W × 4 (at 4 ohms)
Except E model: 45 W × 4 (at 4 ohms)

– Continued on next page –

CDX-GT35U: E, Argentina model
FM/AM COMPACT DISC PLAYER
CDX-GT35U: AEP, UK, Russian model/GT39U/GT39UE
FM/MW/LW COMPACT DISC PLAYER

9-889-678-02
2010B04-1

Sony Corporation
Audio&Video Business Group
Published by Sony Techno Create Corporation

SONY®

General

Outputs:
Audio outputs terminal
(sub/rear switchable)
Power antenna (aerial) relay control terminal
Power amplifier control terminal

Inputs:
Telephone ATT control terminal
(AEP, UK, Russian model)
Remote controller input terminal
(AEP, UK, Russian model)
Antenna (aerial) input terminal
AUX input jack (stereo mini jack)
USB signal input connector

Tone controls:
Low: ±10 dB at 60 Hz (XPLOD)
Mid: ±10 dB at 1 kHz (XPLOD)
High: ±10 dB at 10 kHz (XPLOD)

Power requirements: 12 V DC car battery
(negative ground (earth))

Dimensions: Approx. 178 × 50 × 179 mm
(7 1/8 × 2 × 7 1/8 in.) (w/h/d)

Mounting dimensions:
Approx. 182 × 53 × 162 mm
(7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)

Mass: Approx. 1.2 kg (2 lb. 11 oz.)

Supplied accessories:
Card remote commander: RM-X151 (E, Argentina model)
Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

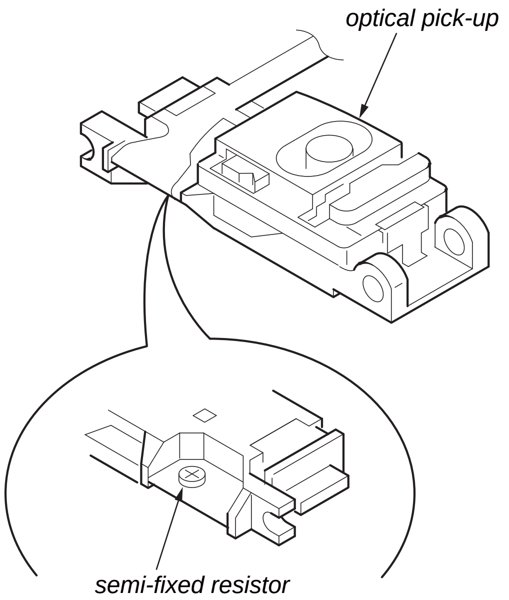
TEST DISCS

Please use the following test discs for the check on the CD section.

YEDS-18 (Part No. 3-702-101-01)
PATD-012 (Part No. 4-225-203-01)

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

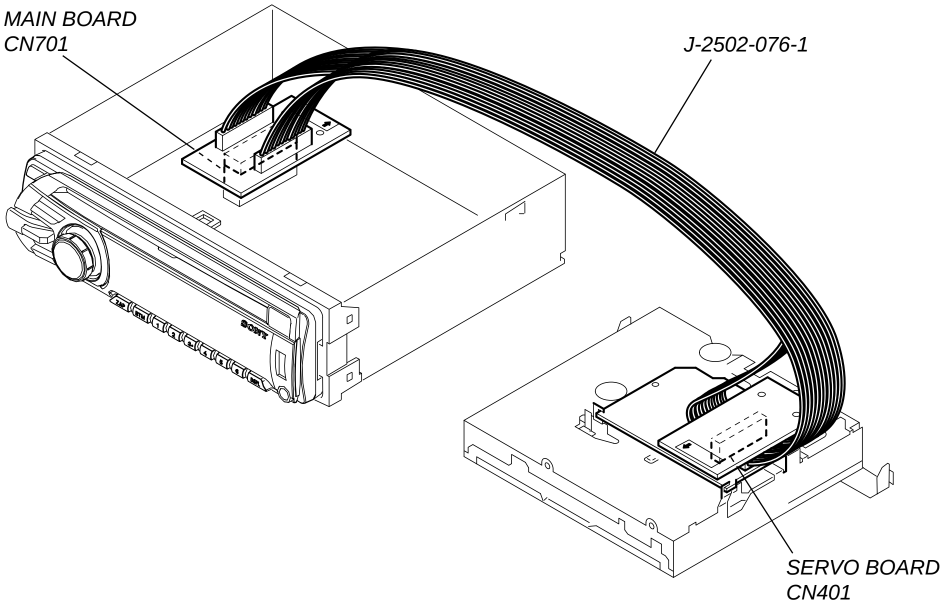
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SECTION 1
SERVICE NOTE

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

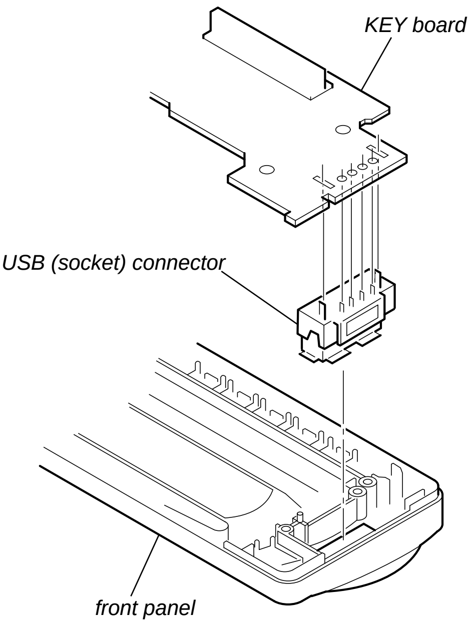
- Connect the MAIN board (CN701) and the SERVO board (CN401) with the extension cable (Part No. J-2502-076-1).



NOTE FOR REPLACEMENT OF THE USB CONNECTOR (CN902)

To replace the USB connector requires alignment.

1. Insert the USB connector into the front panel.
2. Place the KEY board on the front panel and align the terminals of the USB connector with the holes in the KEY board.
3. Solder the four terminals of the connector.



NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (Part No. A-1555-002-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR THE 20-PIN CONNECTOR (CN901)

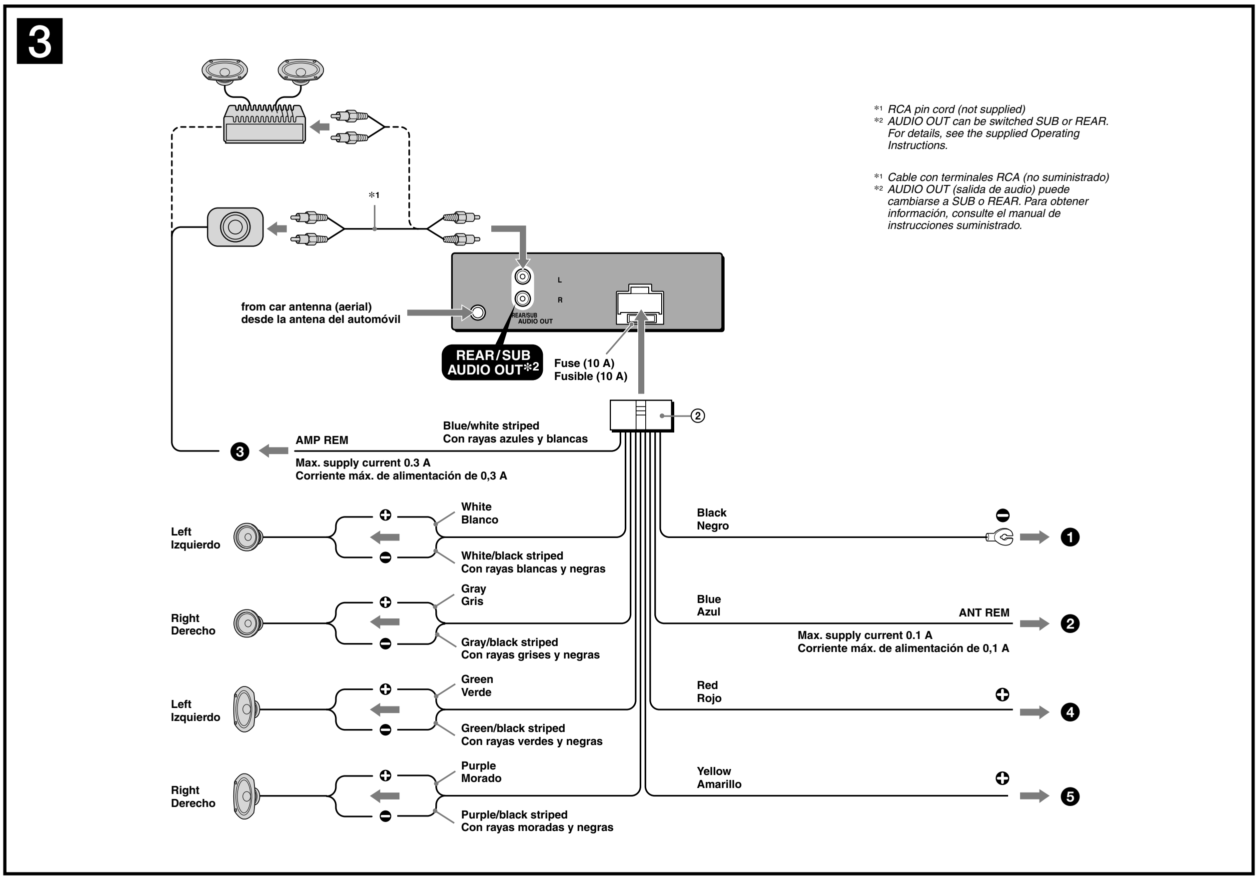
Do not use alcohol to clean the 20-pin connector (CN901) connecting the front panel with the main body.
Do not touch the connector directly with your bare hand. Poor contact may be caused.

SECTION 2
GENERAL

This section is extracted from instruction manual.

CONNECTIONS

- **E model**



Connection diagram 3

❶ **To a metal surface of the car**
First connect the black ground (earth) lead, then connect the yellow, and red power supply leads.

❷ **To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster**
Notes
- *It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❺ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Diagrama de conexión 3

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.

❷ **Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena**
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ **A AMP REMOTE IN de un amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.

❹ **Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de encendido**
Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❺ **Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

.***Notas sobre los cables de control y de fuente de alimentación***
- *El cable de control de la antena motorizada (azul) suministrará cc de + 12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

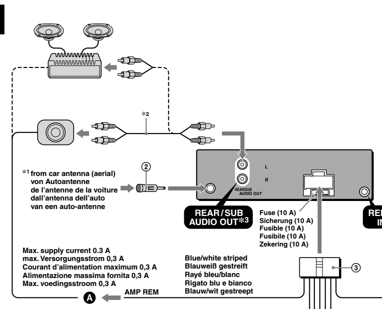
Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

CDX-GT35U/GT39U/GT39UE

Ver. 1.1

• AEP, UK, Russian, Argentina model

3



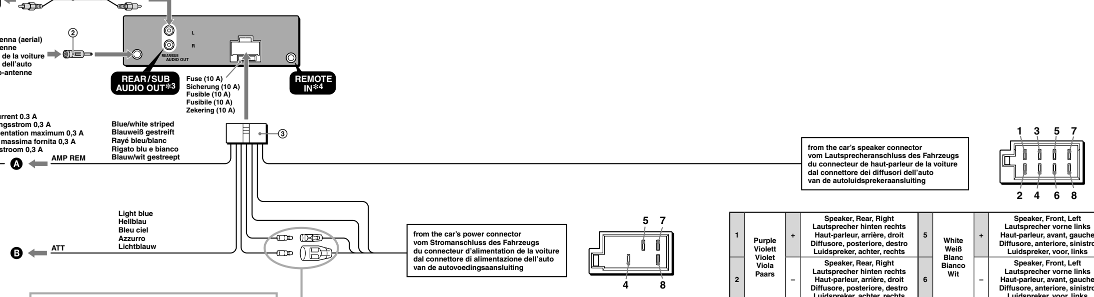
*1 Note for the antenna (aerial) connecting
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ② to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
*2 RCA pin cord (not supplied)
*3 AUDIO OUT can be switched SUB or REAR. For details, see the supplied Operating Instructions.
*4 Separate adaptor may be required.

*1 Hinweis zum Anschließen der Antenne
Wenn Ihre Autoantenne der ISO-Norm (Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters ② an. Verbinden Sie zuerst die Autoantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 Cinchkabel (nicht mitgeliefert)
*3 AUDIO OUT kann zwischen SUB und REAR umgeschaltet werden. Näheres hierzu finden Sie in der mitgelieferten Bedienungsanleitung.
*4 Möglicherweise ist ein separater Adapter erforderlich.

*1 Remarque sur le raccordement de l'antenne
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni ② pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 Cordon à broche RCA (non fourni)
*3 AUDIO OUT peut être commuté sur SUB ou REAR. Pour obtenir plus de détails, reportez-vous au mode d'emploi.
*4 Un adaptateur séparé peut être nécessaire.

*1 Nota per il collegamento dell'antenna
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore ② in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 Cavo a piedini RCA (non in dotazione)
*3 AUDIO OUT può essere impostato su SUB o su REAR. Per ulteriori informazioni, consultare il manuale di istruzioni per l'uso.
*4 Potrebbe essere necessario un adattatore separato.

*1 Opmerking bij de antenne-aansluiting
Indien uw auto is uitgerust met een antenne van het type ISO (International Organization for Standardization), moet u die aansluiten met behulp van de bijgeleverde adapter ②. Sluit eerst de auto-antenne aan op de bijgeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.
*2 Tulpstekkersnoer (niet bijgeleverd)
*3 AUDIO OUT kan worden ingesteld op SUB of REAR. Raadpleeg de gebruiksaanwijzing voor meer informatie.
*4 Er is mogelijk een afzonderlijke adapter vereist.



See "Power connection diagram" on the reverse side for details.

Näheres dazu finden Sie im „Stromanschlussdiagramm". Blättern Sie dazu bitte um.

Voir le « Schéma de raccordement d'alimentation » au verso pour plus de détails.

Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.

Zie "Voedingsaansluitschema" op de achterkant voor meer details.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power antenna (aerial) control Motorantennensteuerung antenne électrique comando dell'antenna elettrica elektrische antenne	8	Black Schwarz Noir Nero Zwart	ground (earth) Masse masse terra aarding

Positions 1, 2, 3, and 6 do not have pins.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Les positions 1, 2, 3 et 6 ne comportent pas de broches.
Le posizioni 1, 2, 3 e 6 non hanno piedini.
De posities 1, 2, 3 en 6 hebben geen pins.

1	Purple Violett Violet Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Gray Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped leads.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.

Connection diagram 3

A To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.

B To the interface cable of a car telephone

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Anschlussdiagramm 3

A An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.

B An Schnittstellenkabel eines Autotelefons

Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel ③ die Antenne beschädigt werden.

Hinweise zu den Steuer- und Stromversorgungsleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Hinweis zum Anschließen
Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.

Schémas de raccordement 3

A Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.

B Vers le cordon de liaison d'un téléphone de voiture

Avertissement

Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni ③ risque d'endommager l'antenne.

Remarques sur les câbles de commande et d'alimentation
- *Le câble de commande d'antenne électrique (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (informations de circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW (GO)/LW (PO) intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne électrique (bleu) ou le câble d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.*
- *Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont raccordés correctement.

Schema di collegamento 3

A A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

B Al cavo di interfaccia di un telefono per auto

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione ③, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

Note sui cavi di controllo e di alimentazione
- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Nota sui collegamenti
Se l'amplificatore e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.

Aansluitschema 3

A Naar AMP REMOTE IN van een optionele eindversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.

B Naar het interface-snoer van een autotelefoon

Waarschuwing

Indien u een elektrische antenne hebt zonder relaiskast, kan het aansluiten van dit apparaat met de bijgeleverde voedingskabel ③ de antenne beschadigen.

Opmerkingen over de bedienings- en voedingskabels
- *De bedieningskabel voor de elektrische antenne (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (Alternative Frequency) of TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/zijruit, moet u de bedieningskabel voor de elektrische antenne (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.*

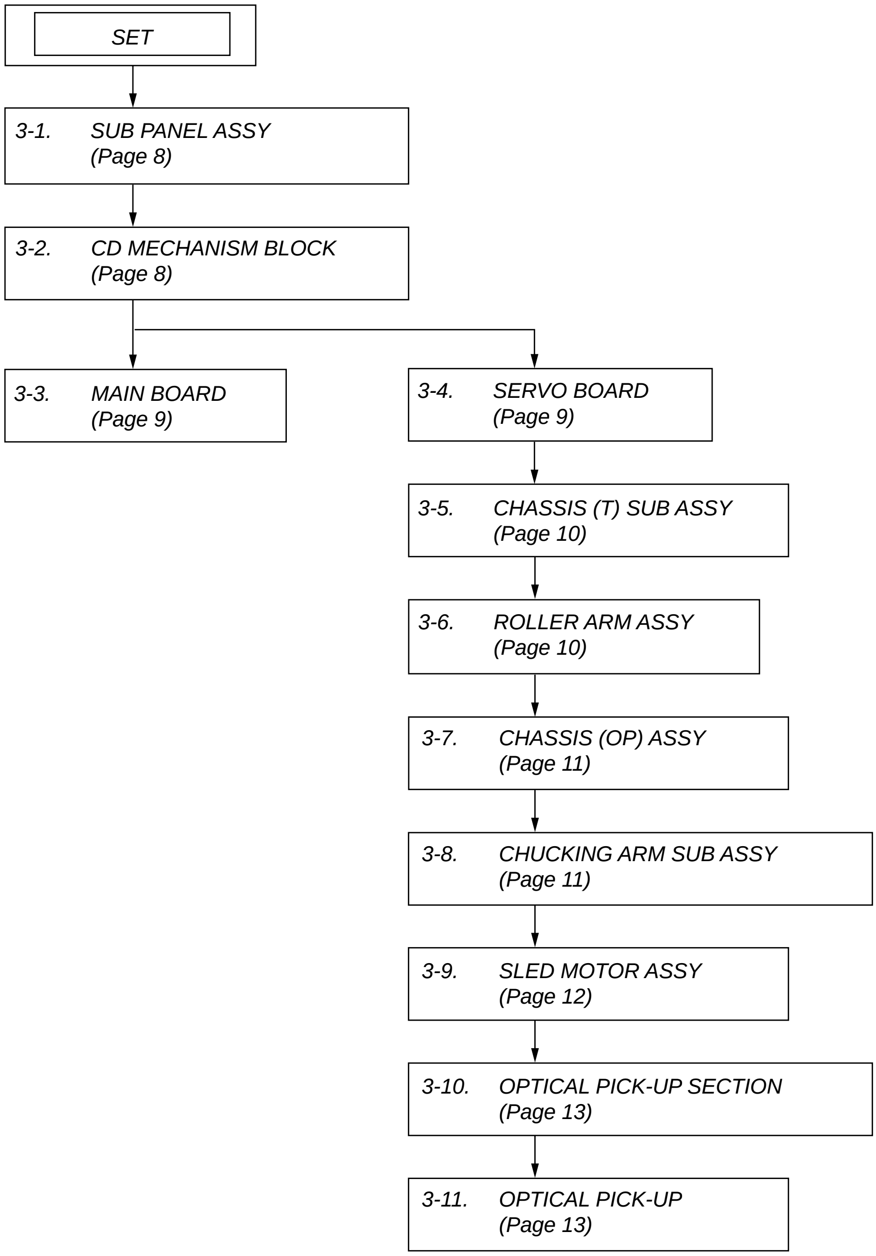
Instandhouden van het geheugen
Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als u dit niet doet, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.*
- *Verbind de aarddraad van dit apparaat niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter- en linkerluidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

Opmerking over aansluiten
Als de luidspreker en versterker niet correct zijn aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.

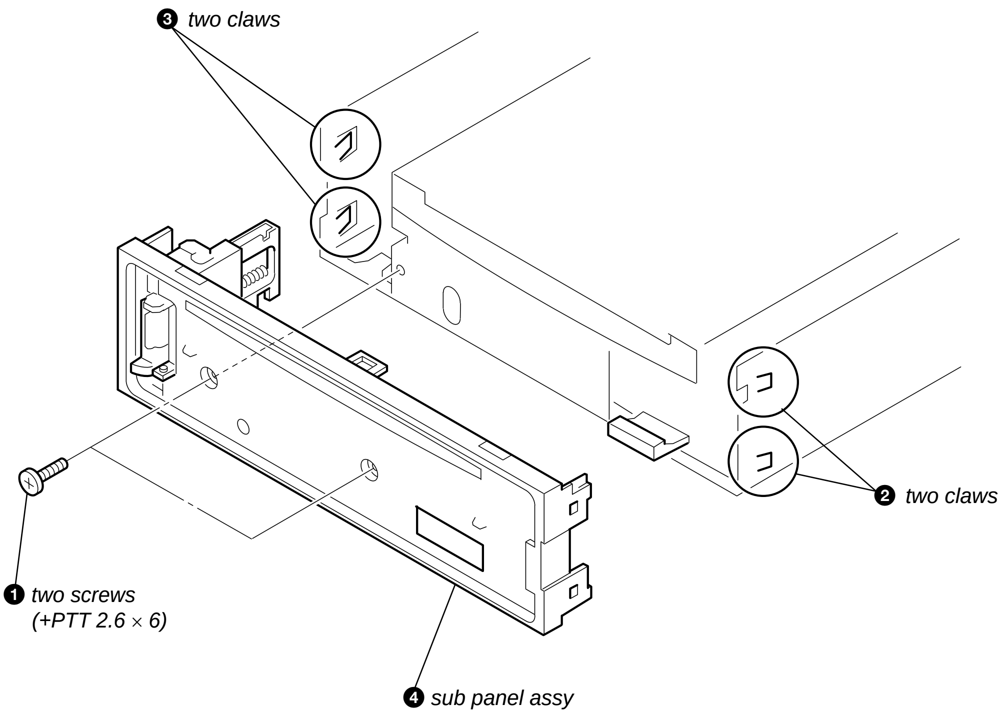
SECTION 3
DISASSEMBLY

- This set can be disassembled in the order shown below.

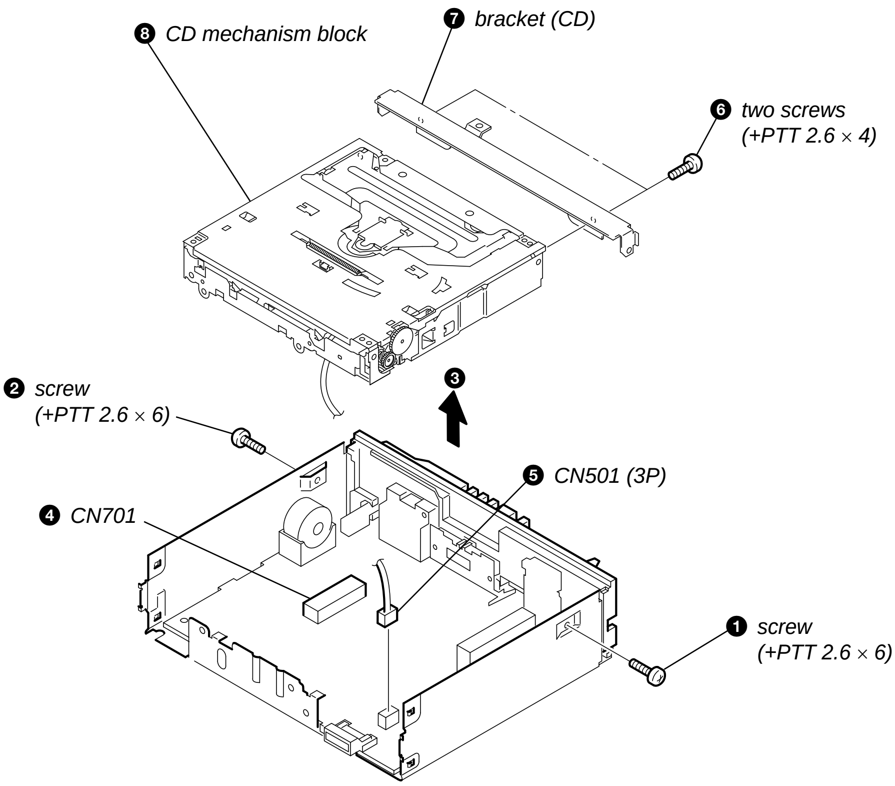


Note: Follow the disassembly procedure in the numerical order shown below.

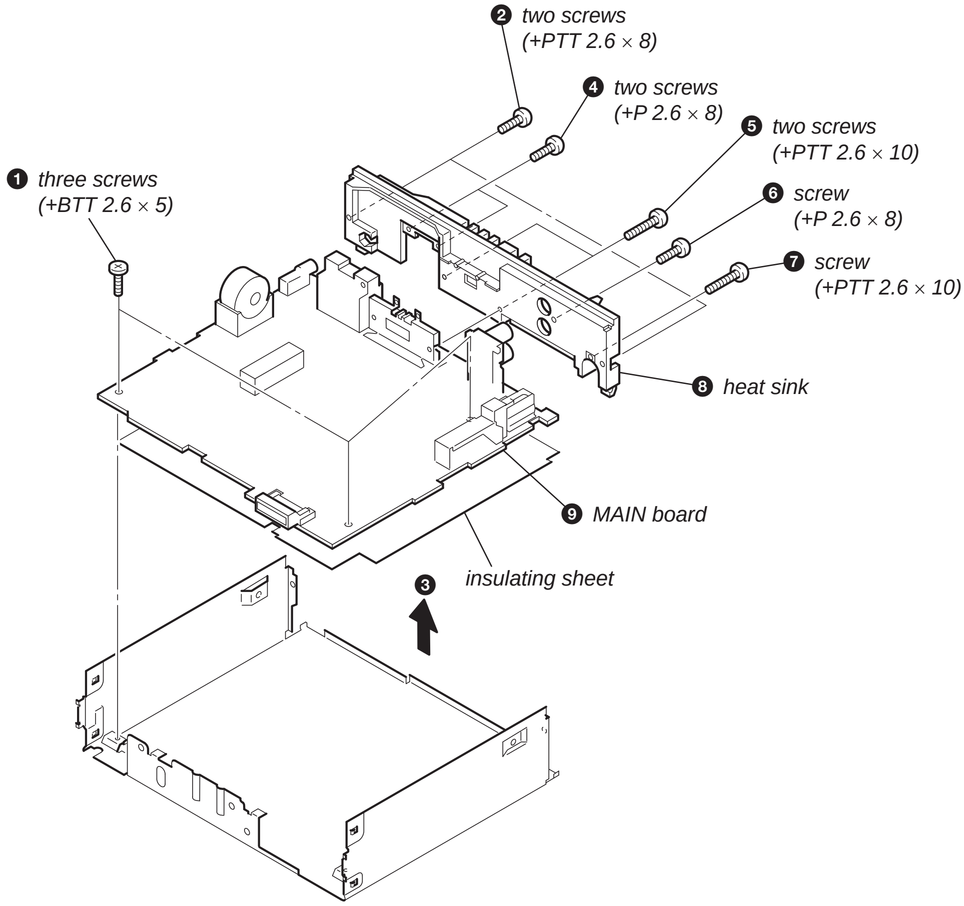
3-1. SUB PANEL ASSY



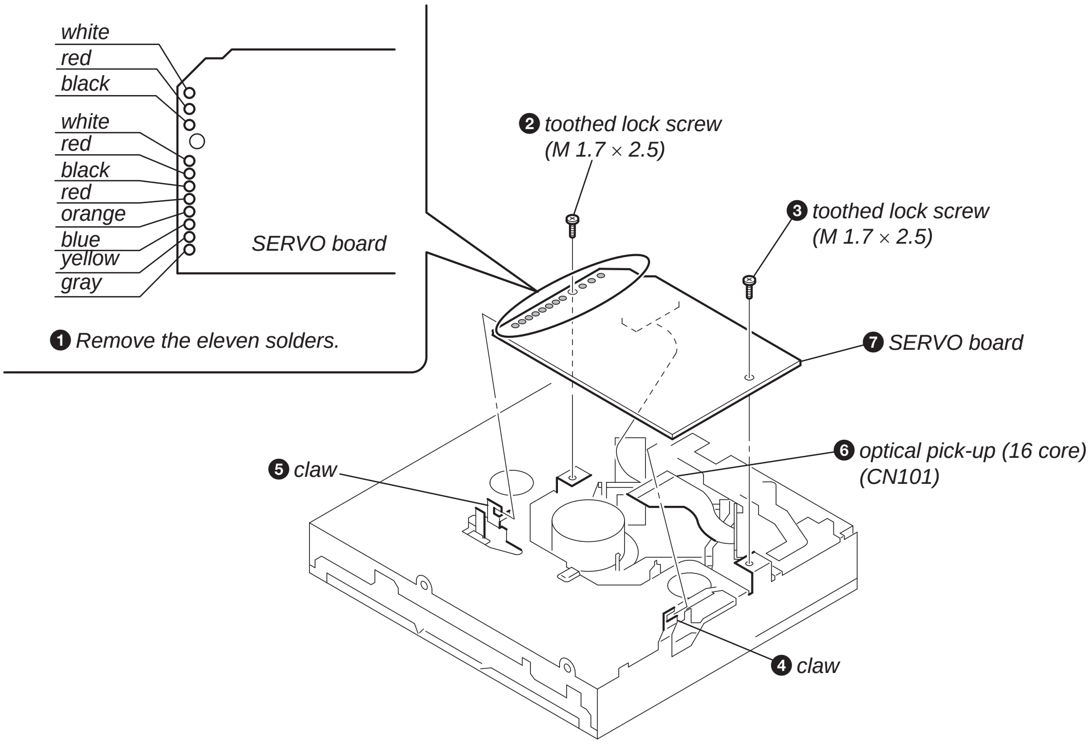
3-2. CD MECHANISM BLOCK



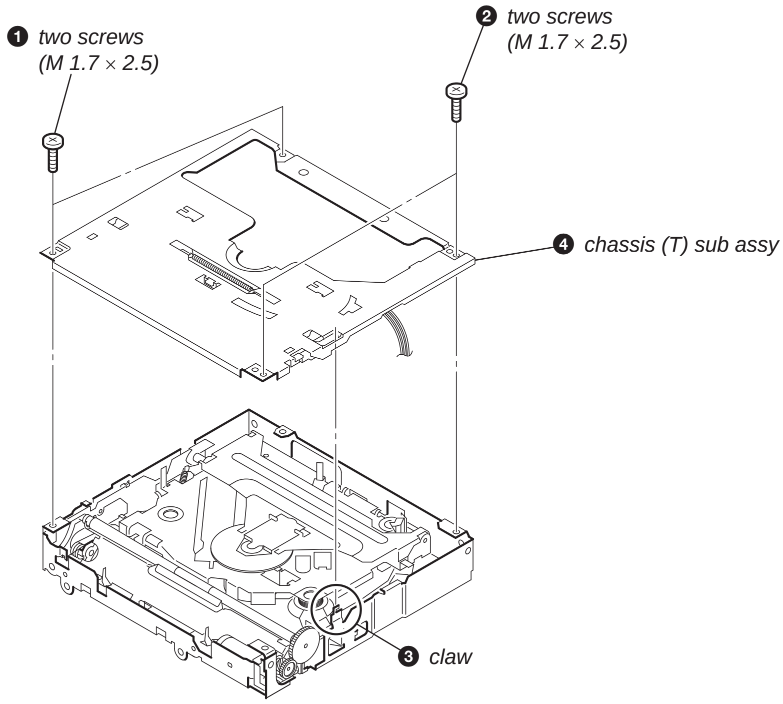
3-3. MAIN BOARD



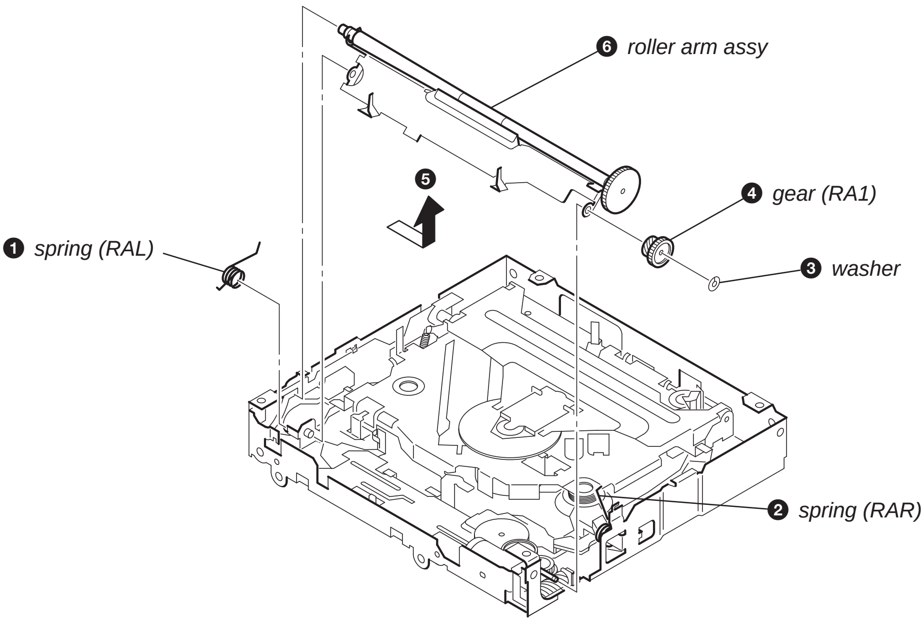
3-4. SERVO BOARD



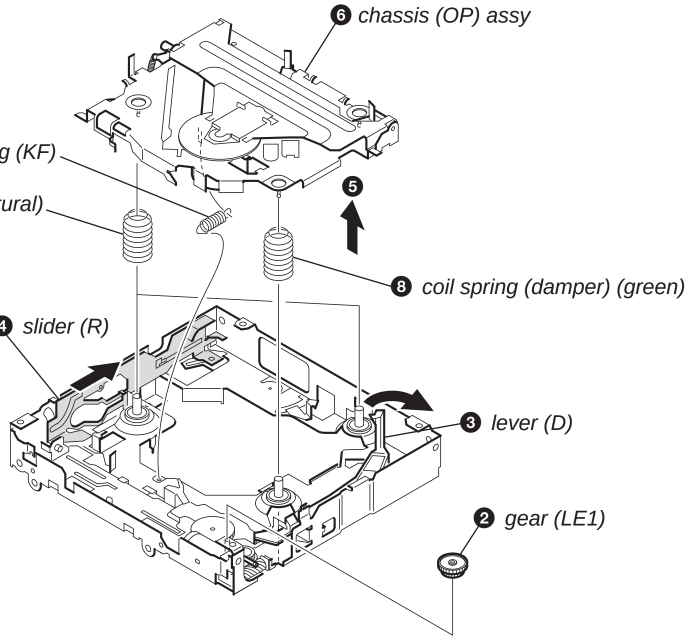
3-5. CHASSIS (T) SUB ASSY



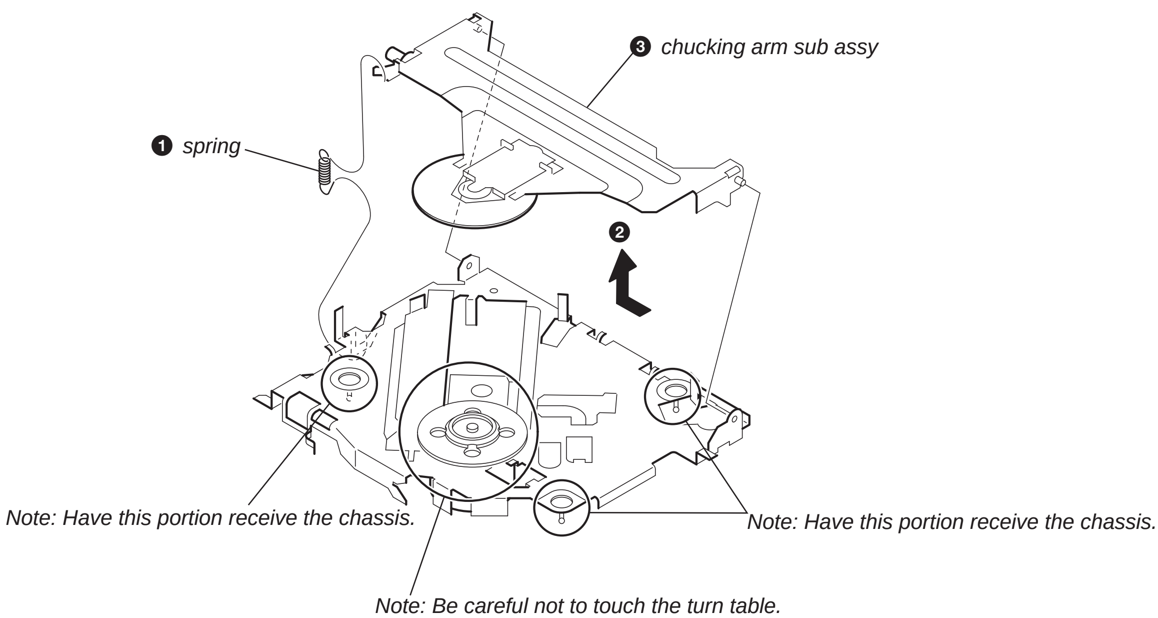
3-6. ROLLER ARM ASSY



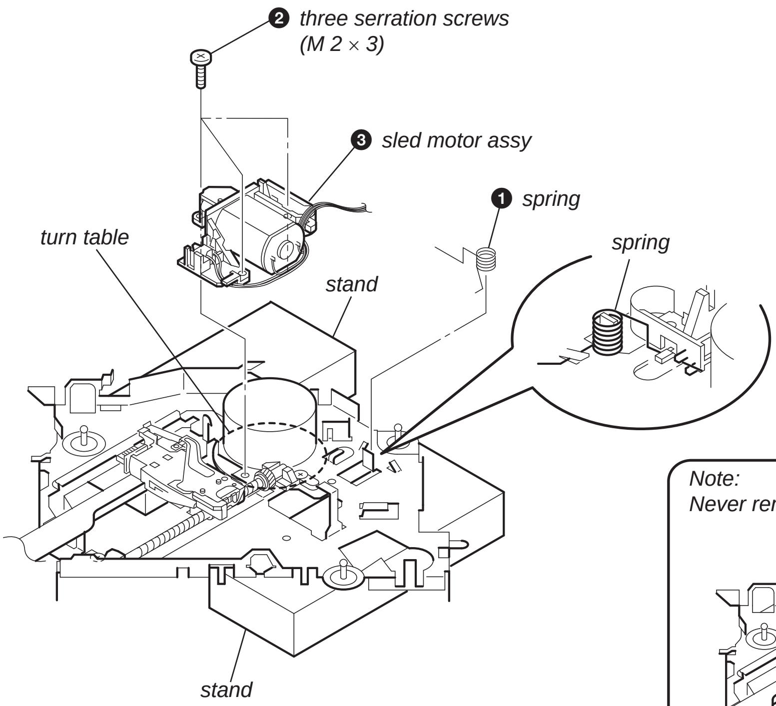
3-7. CHASSIS (OP) ASSY



3-8. CHUCKING ARM SUB ASSY

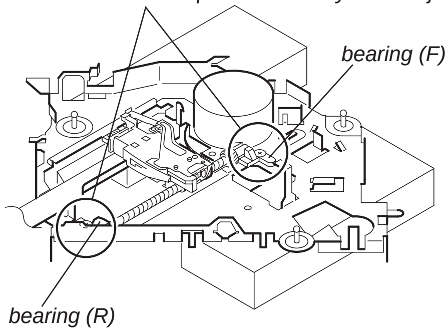


3-9. SLED MOTOR ASSY

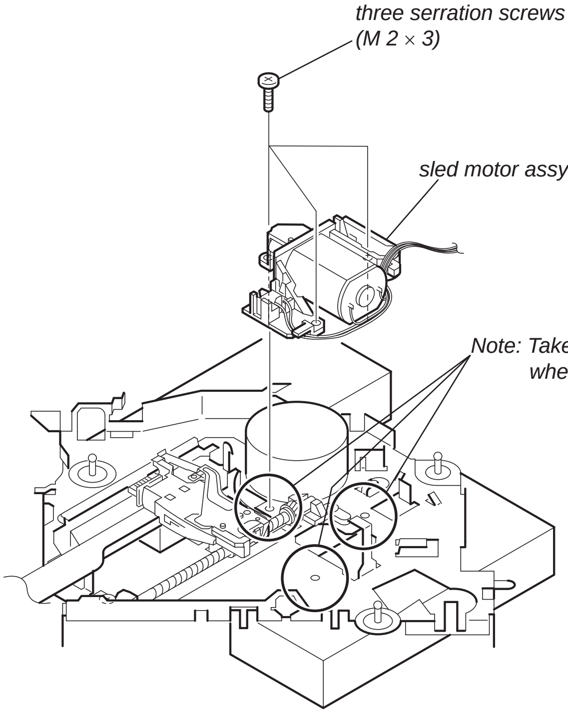


Note: Place the stand with care not to touch the turn table.

Note:
Never remove these parts since they were adjusted.

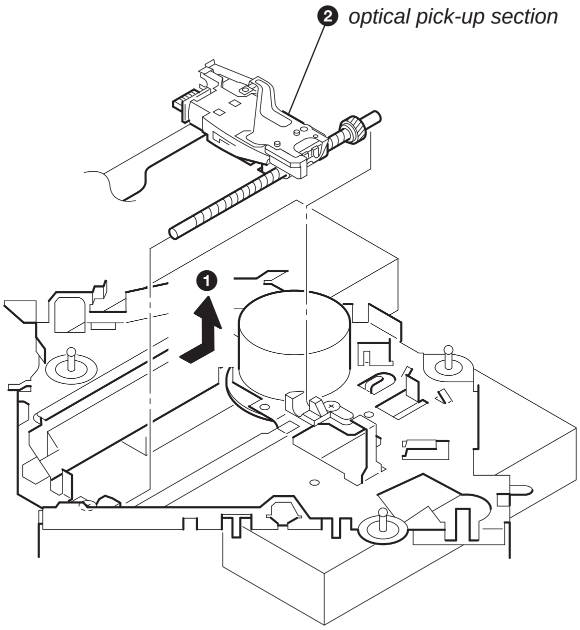


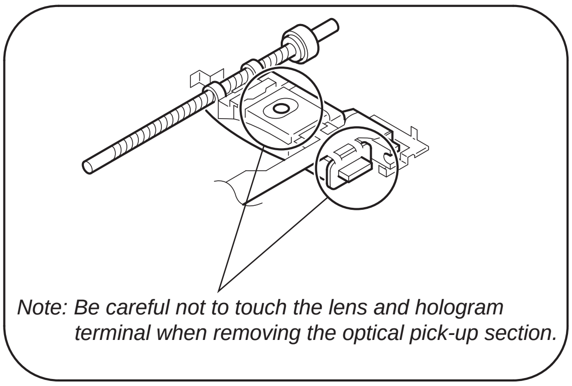
Note for Assembly



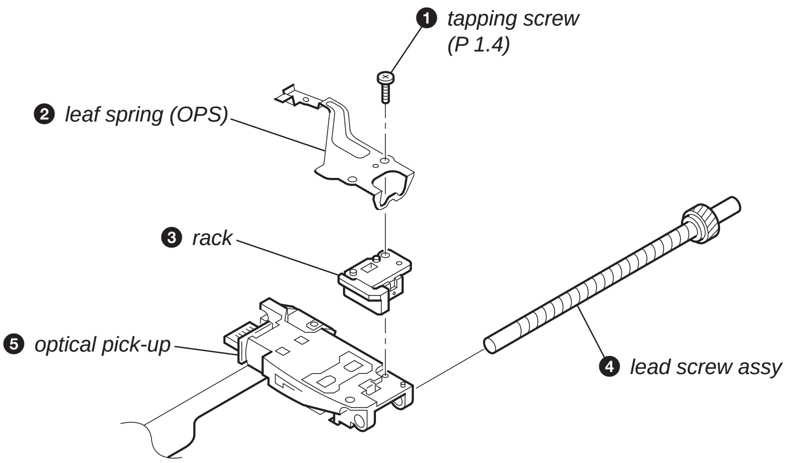
Note: Take care to prevent the chassis from being bent when tightening the three machine screws.

3-10. OPTICAL PICK-UP SECTION





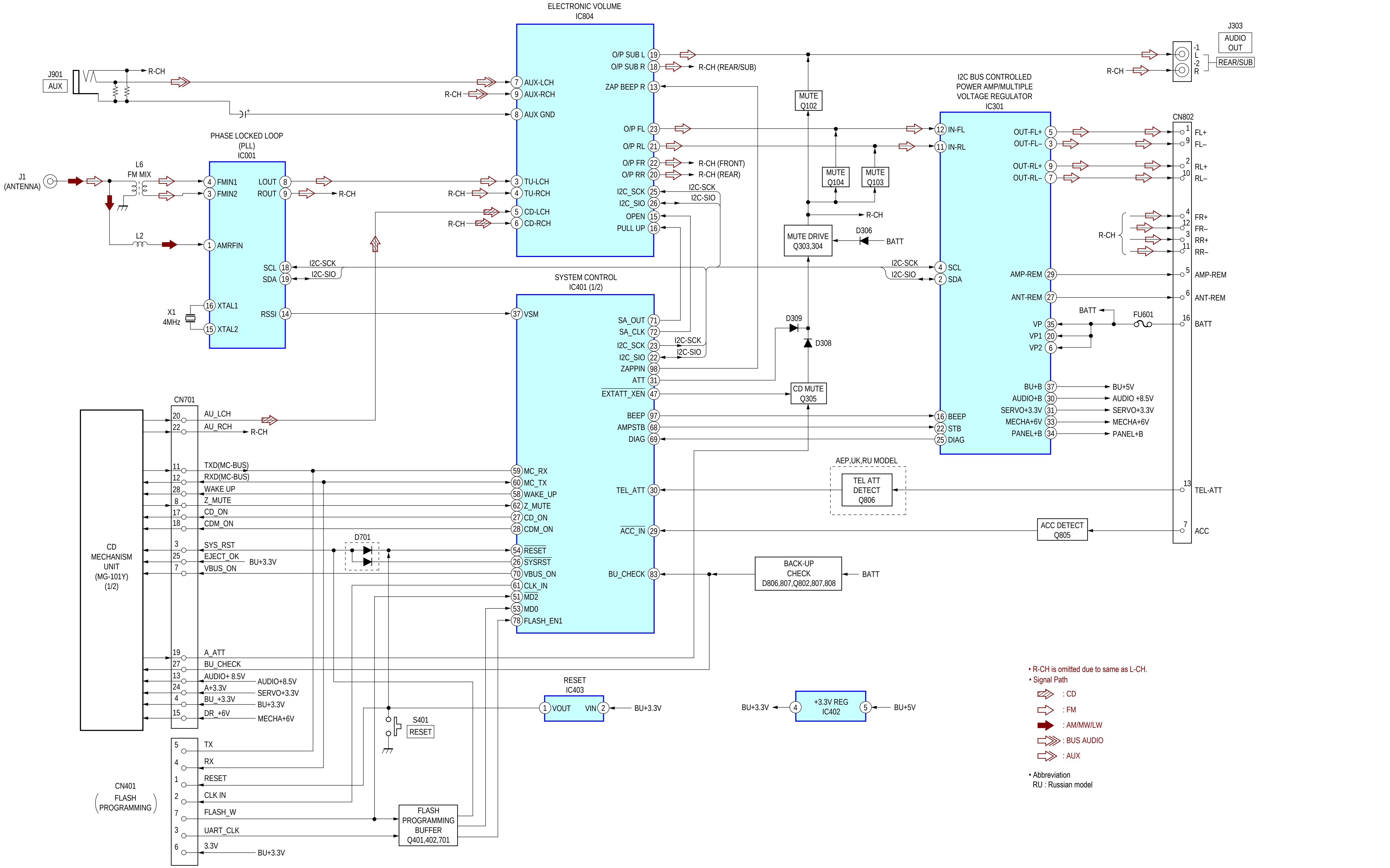
3-11. OPTICAL PICK-UP



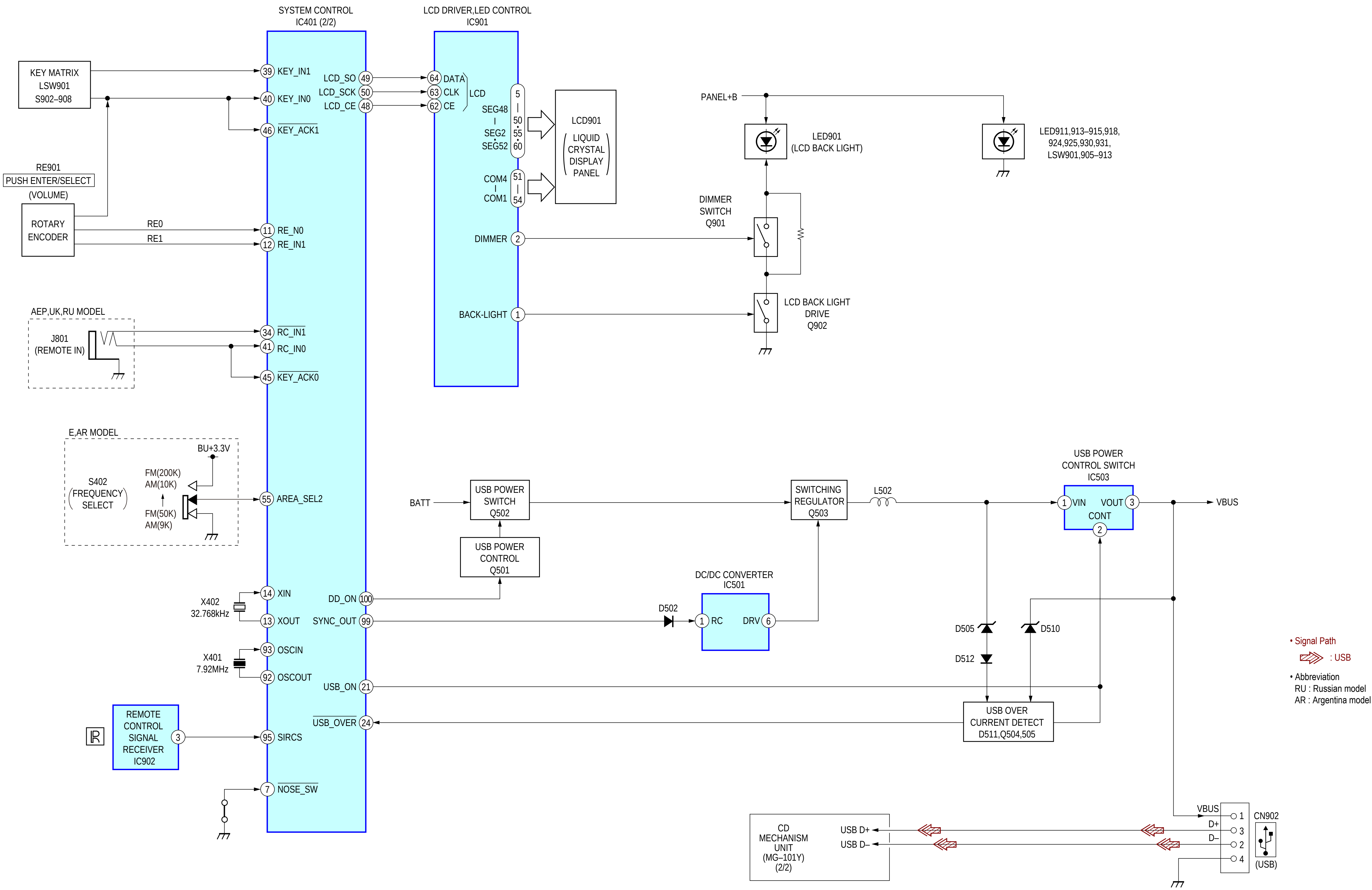
MEMO

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM – MAIN Section –



4-2. BLOCK DIAGRAM – DISPLAY Section –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards:

Note:
- o——— : Parts extracted from the component side.
- ——— : Parts extracted from the conductor side.
- ○ : Through hole.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  RU : Russian model
  AR : Argentina model

For Schematic Diagrams:

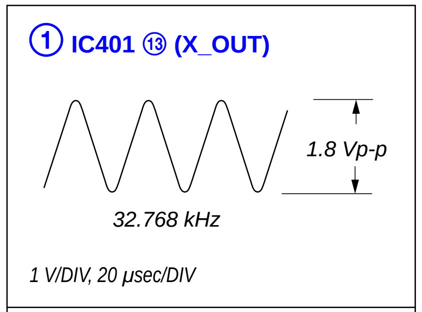
Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- ▭ : Panel designation.

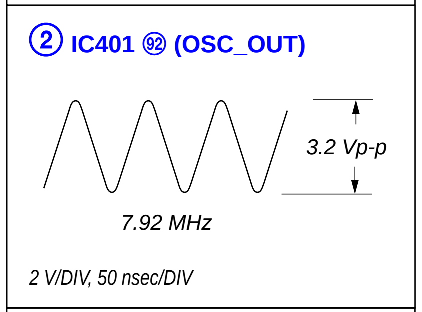
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

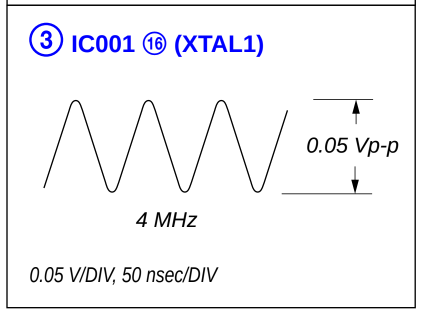
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM/MW/LW
  < > : CD PLAY
  ∗ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : CD
  : FM
  : AM/MW/LW
  : AUX
  : USB
- Abbreviation
  RU : Russian model
  AR : Argentina model

- **Waveforms**

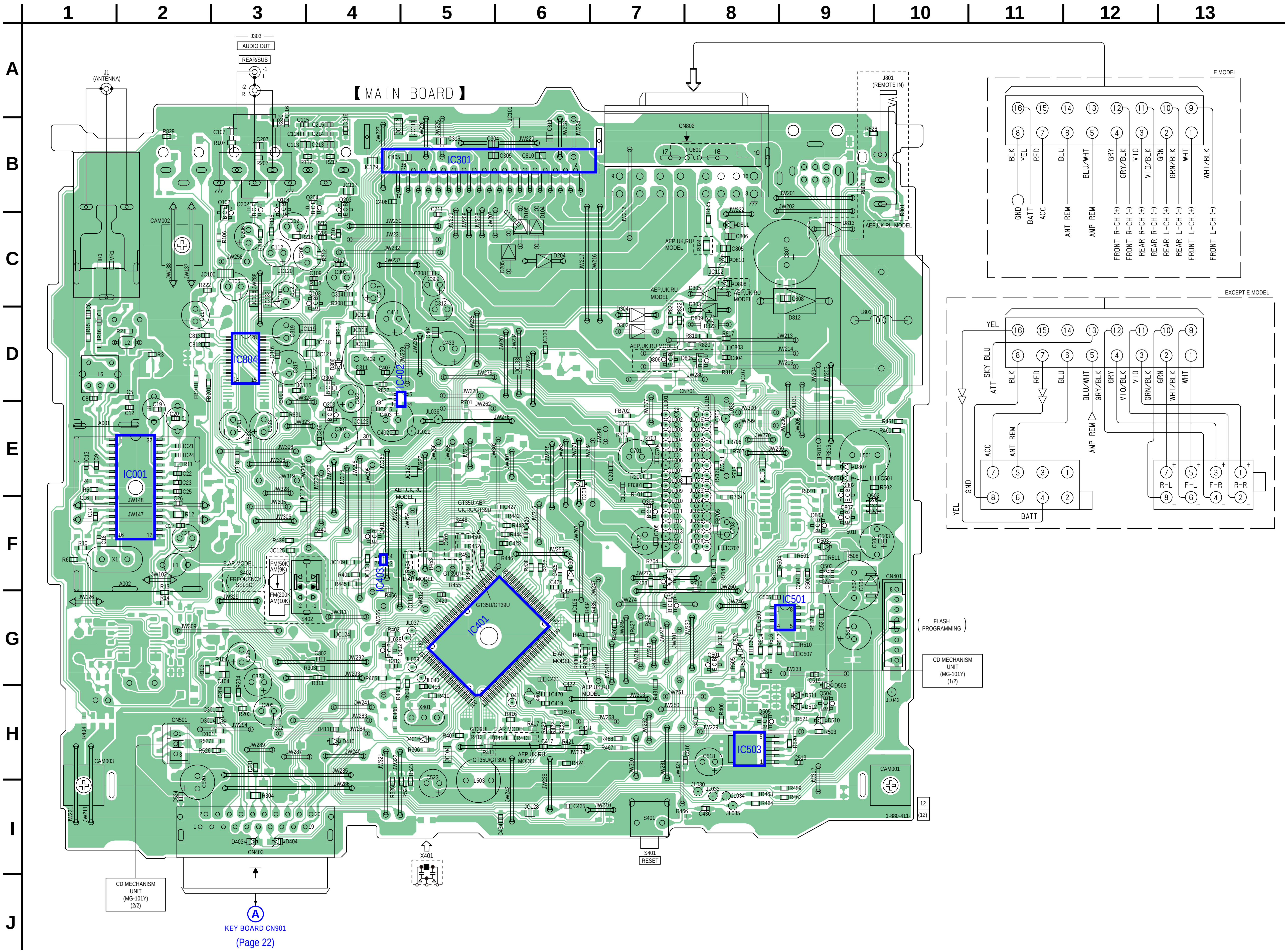
– MAIN Board –





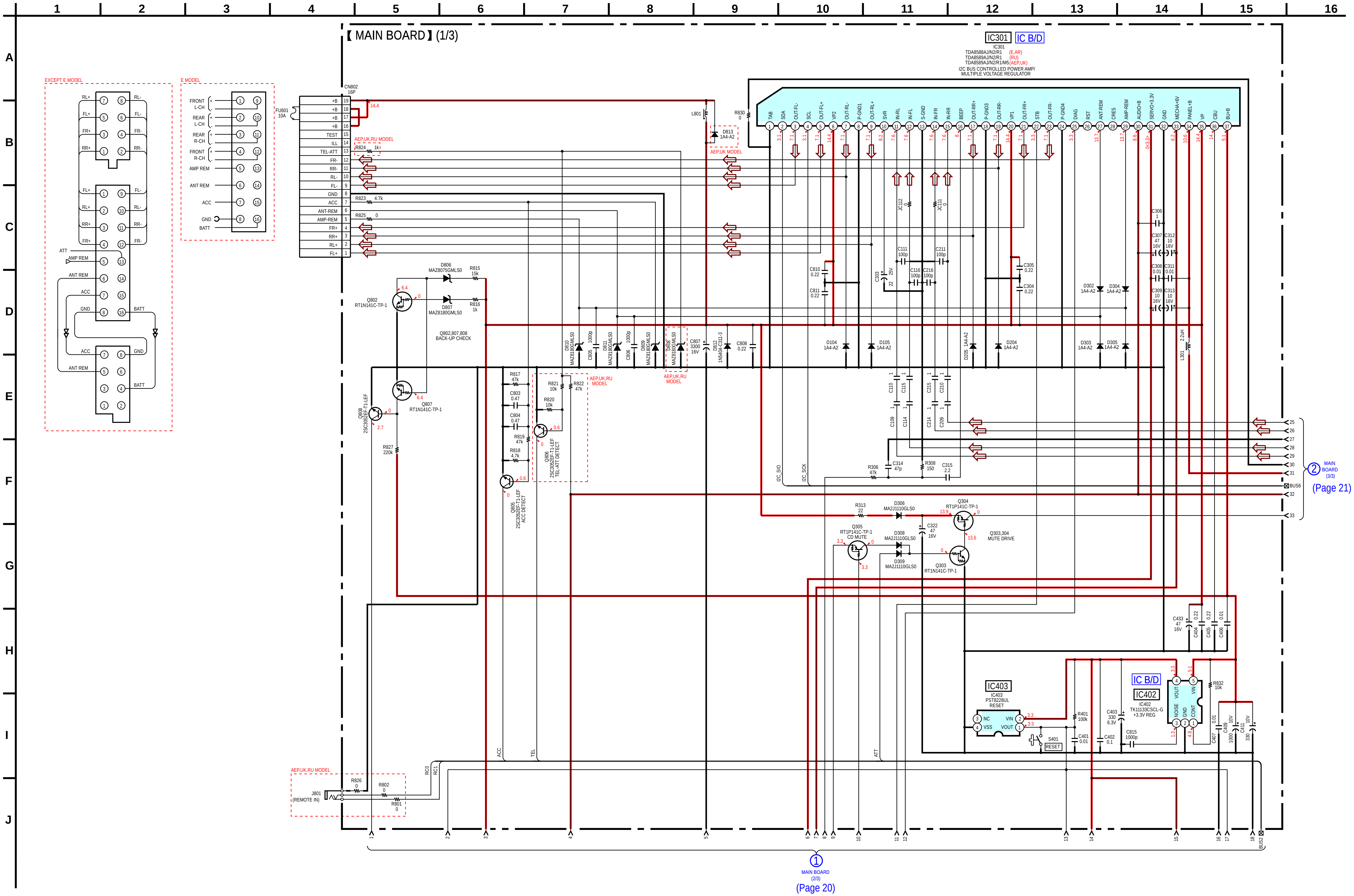


4-3. PRINTED WIRING BOARD – MAIN Section – • : Uses unleaded solder.

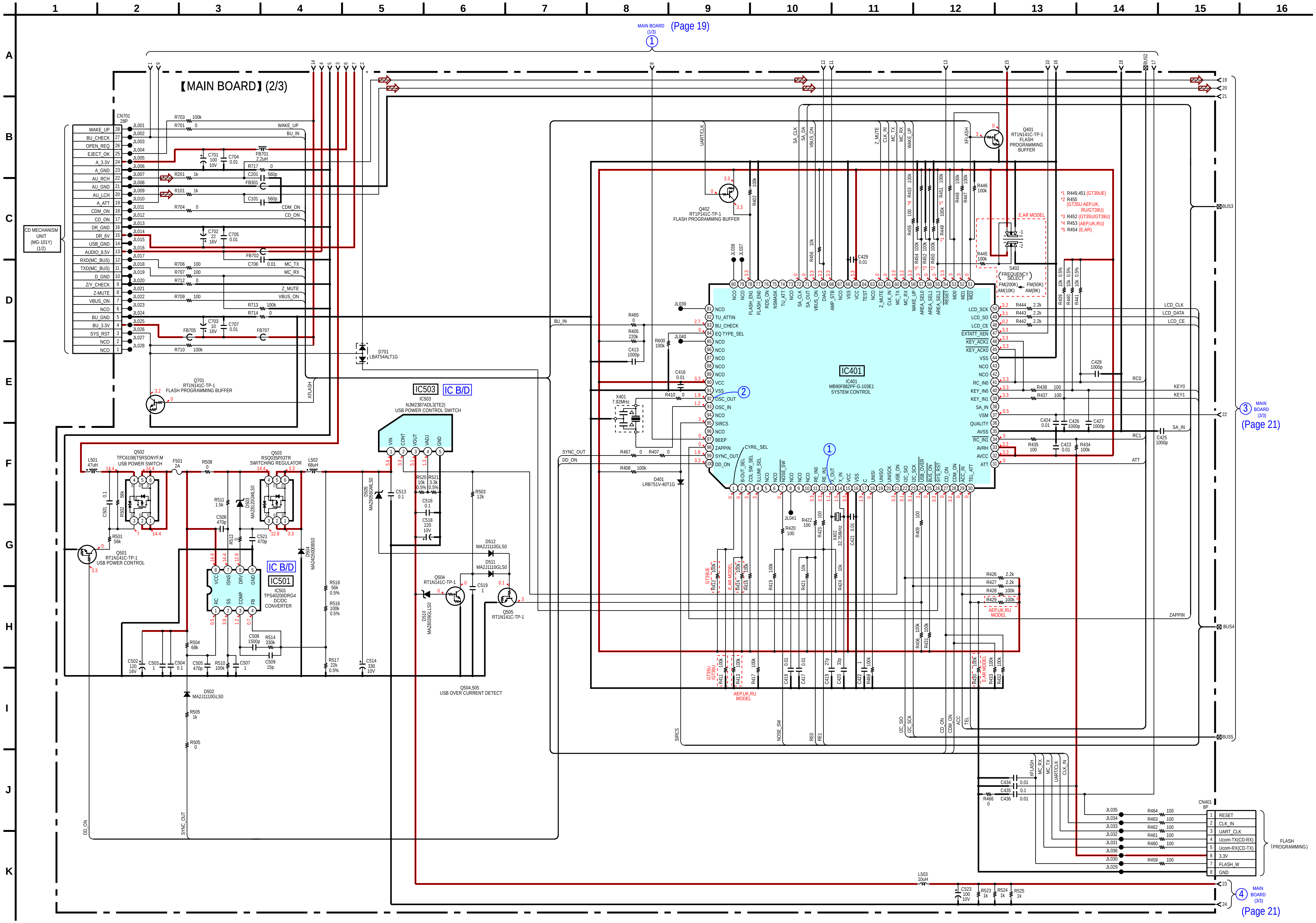


4-4. SCHEMATIC DIAGRAM – MAIN Section (1/3) –

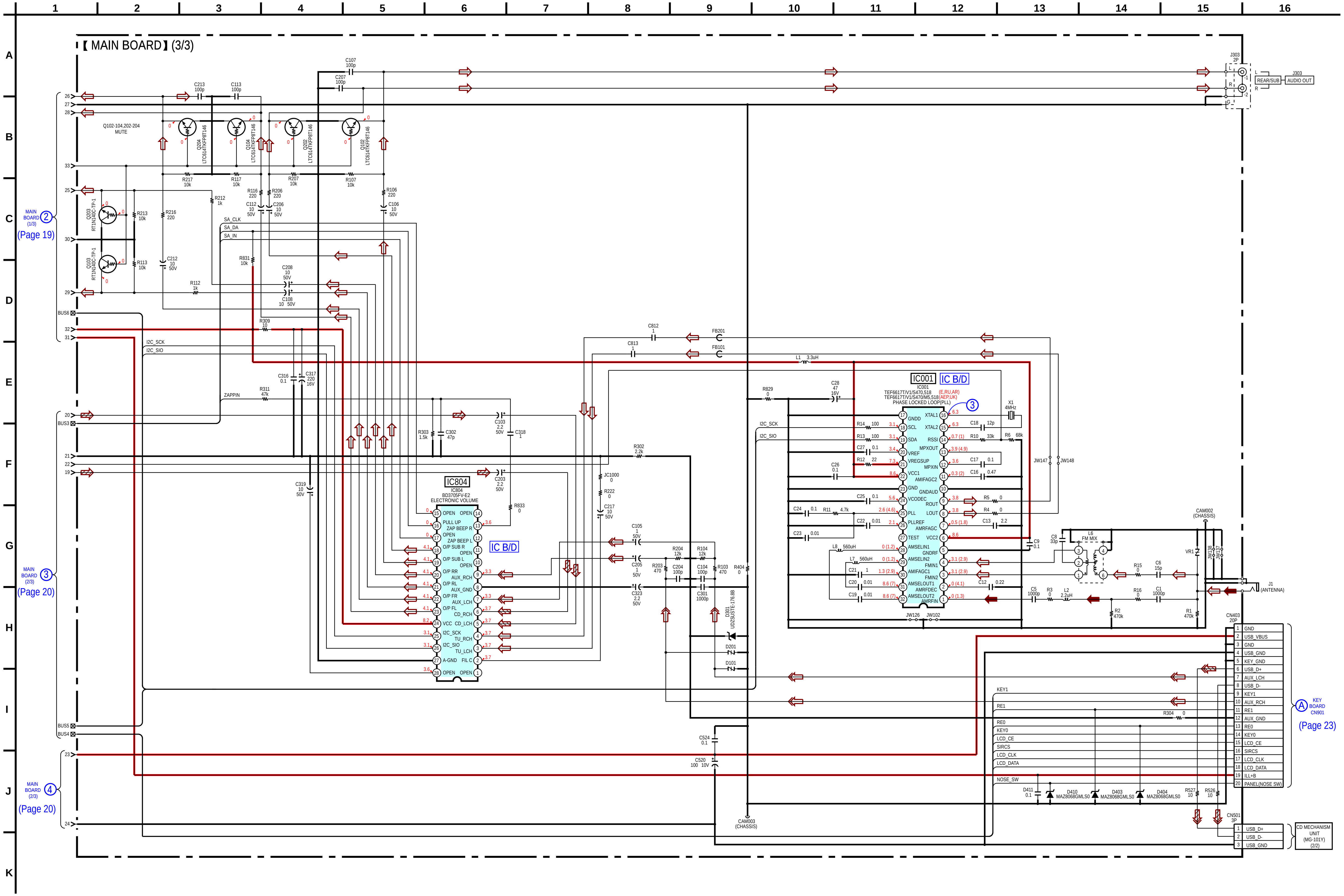
• See page 24 for IC Block Diagrams.



4-5. SCHEMATIC DIAGRAM – MAIN Section (2/3) – • See page 17 for Waveforms. • See page 24 for IC Block Diagrams. • See page 26 for IC Pin Function Description.

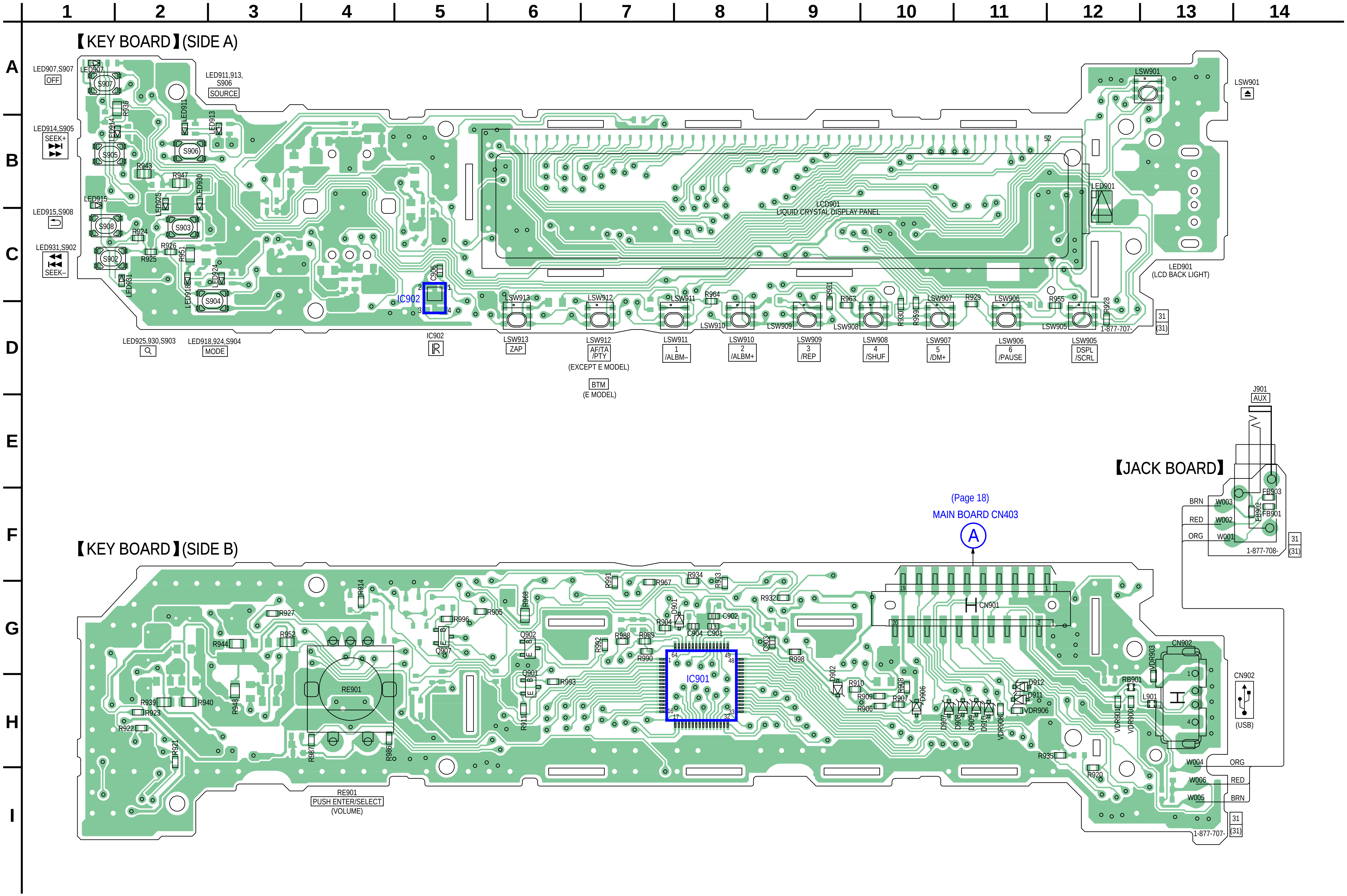


4-6. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 17 for waveforms. • See page 24 for IC Block Diagrams.

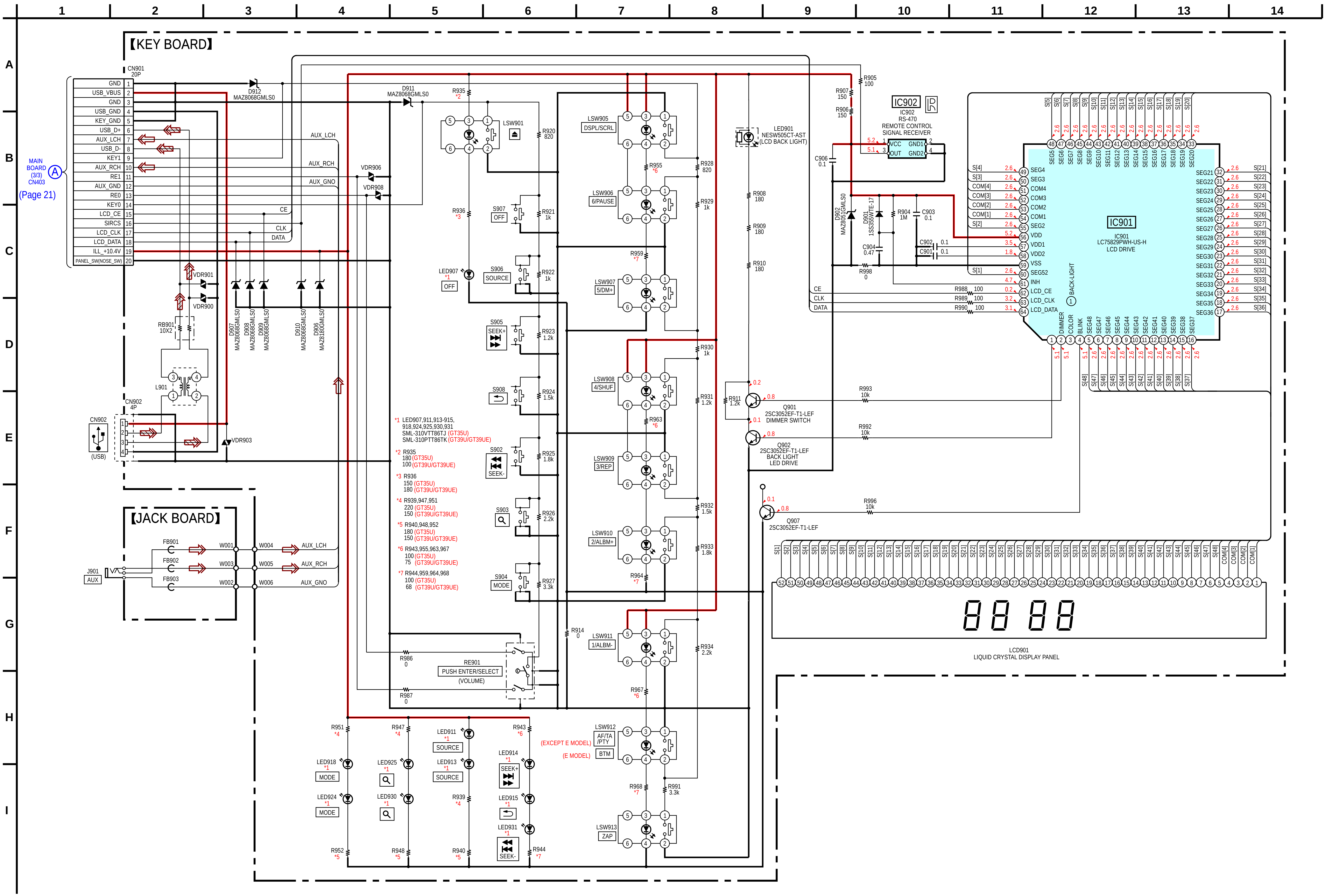


4-7. PRINTED WIRING BOARDS – KEY Section –

• : Uses unleaded solder.

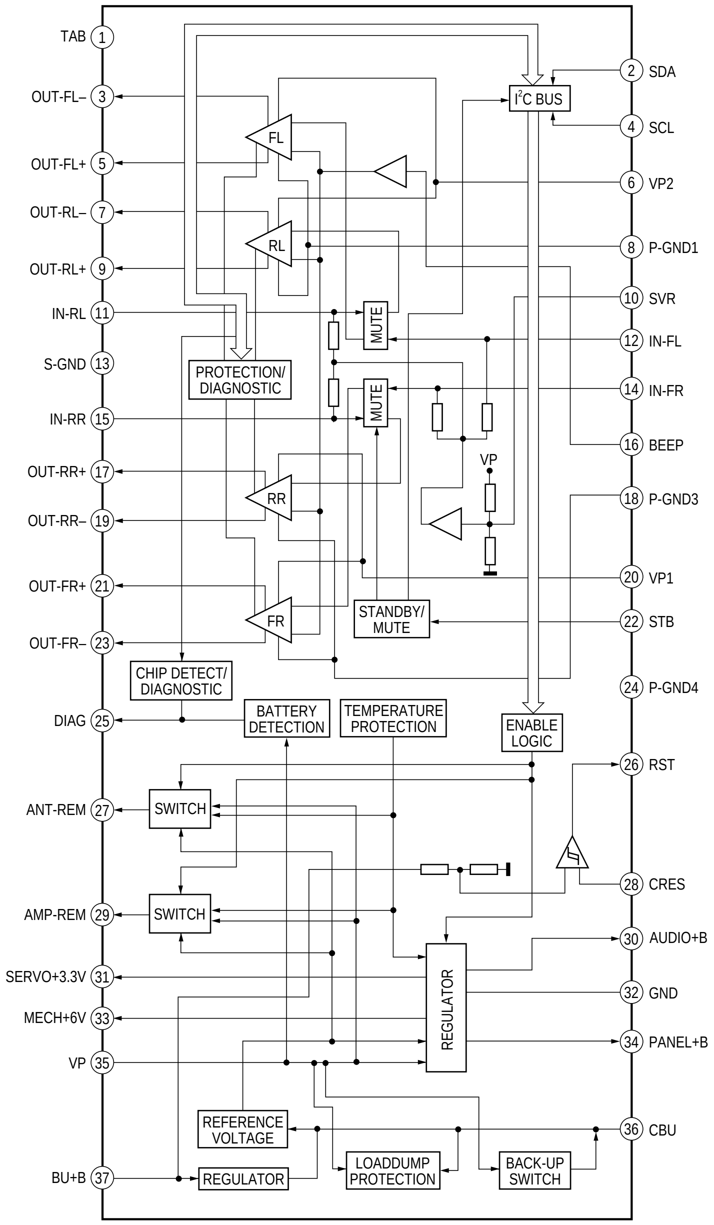


4-8. SCHEMATIC DIAGRAM – KEY Section –

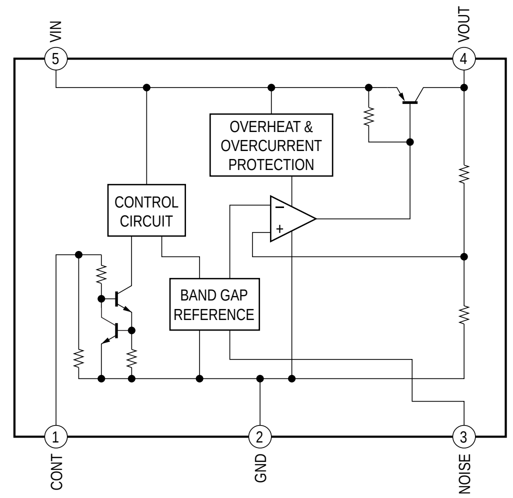


- **IC Block Diagrams**

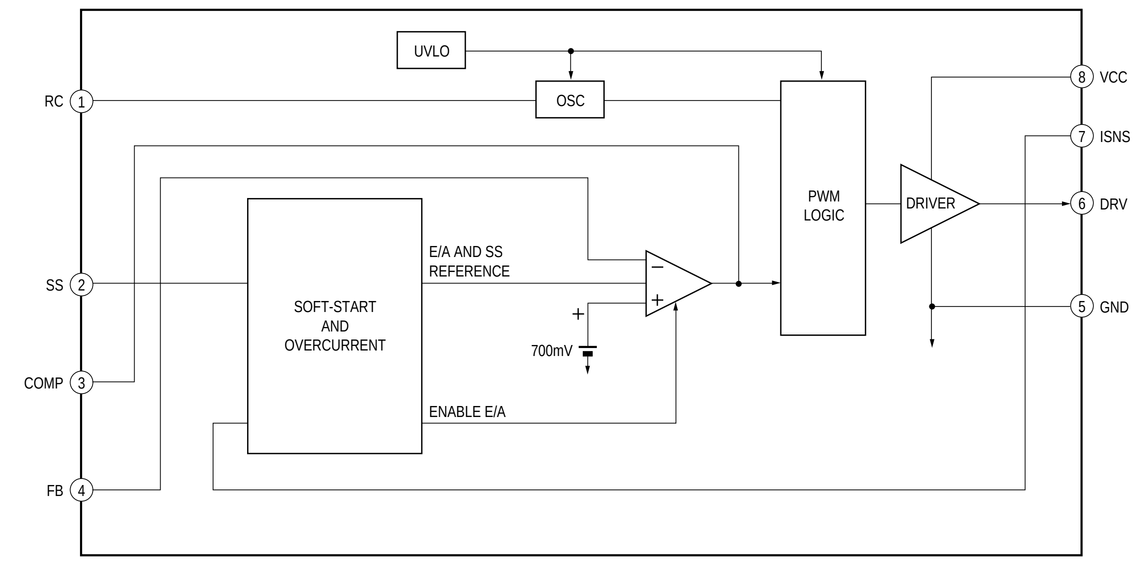
IC301 TDA8588AJ/N2/R1 (MAIN Board (1/3)) (E, Argentina model)
IC301 TDA8589AJ/N2/R1 (MAIN Board (1/3)) (Russian model)
IC301 TDA8589AJ/N2/R1/M5 (MAIN Board (1/3)) (AEP, UK model)



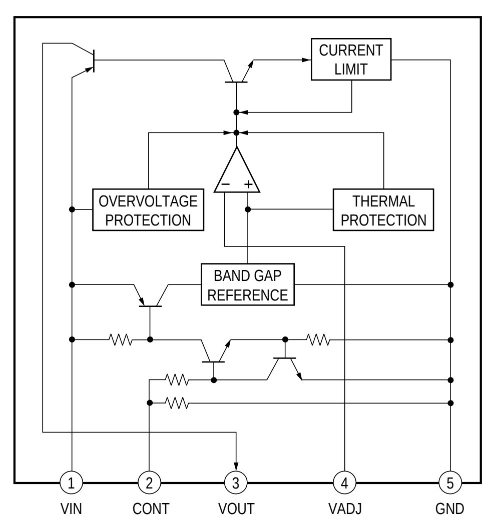
IC402 TK11133CSCL-G (MAIN Board (1/3))



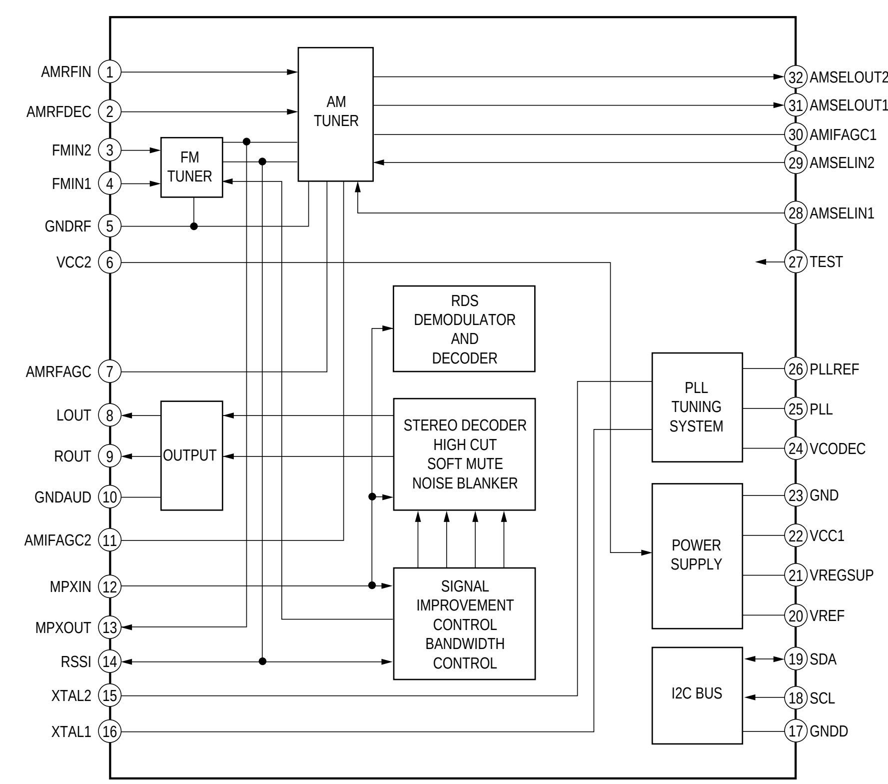
IC501 TPS40200DRG4 (MAIN Board (2/3))



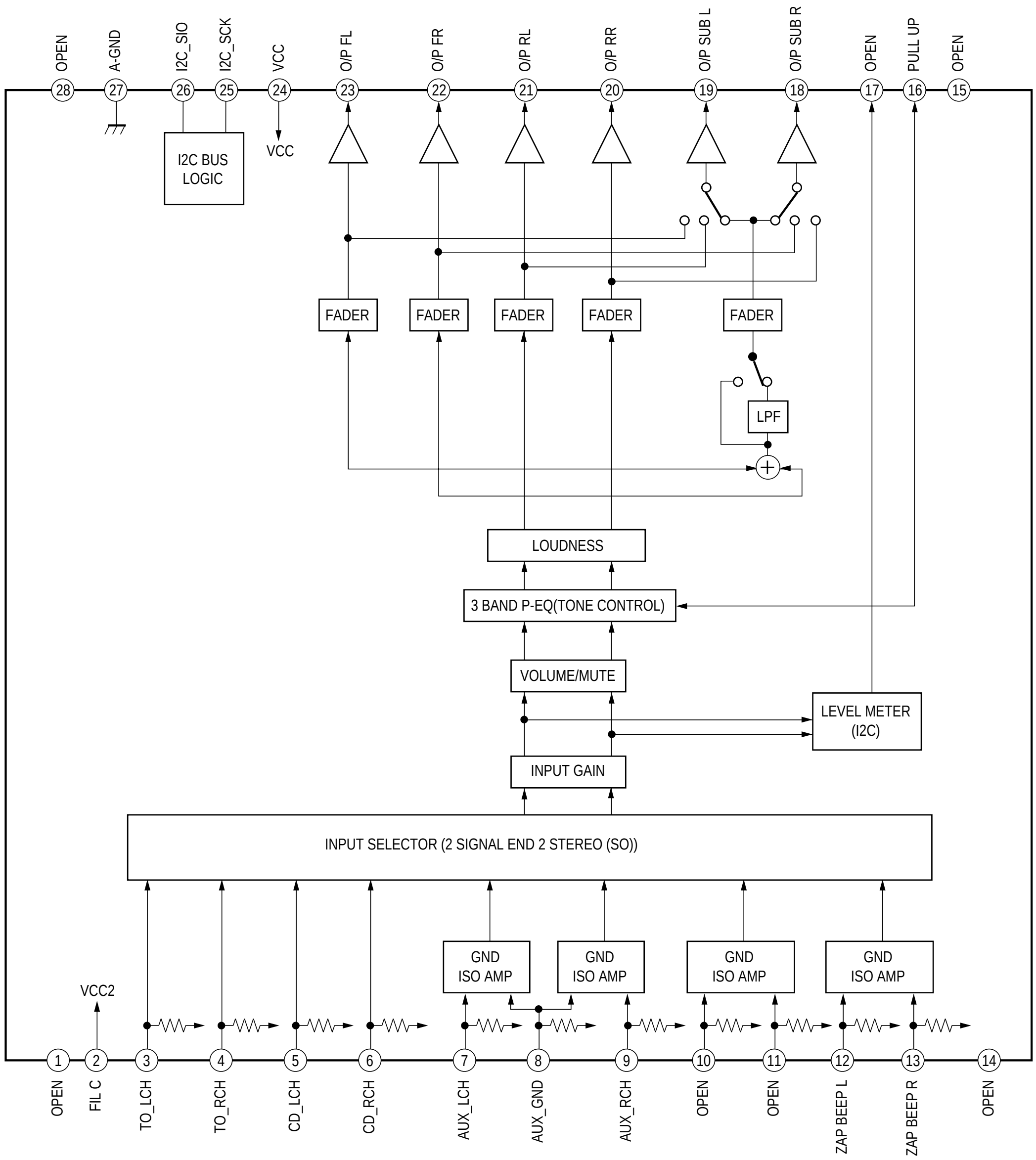
IC503 NJM2387ADL3 (TE2) (MAIN Board (2/3))



IC001 TEF6617/V1/S470, 518 (MAIN Board (3/3)) (E, Russian, Argentina model)
IC001 TEF6617/V1/S470/M5, 518 (MAIN Board (3/3)) (AEP, UK model)



IC804 BD3705FV-E2 (MAIN Board (3/3))



- **IC Pin Function Description**

MAIN BOARD (2/3) IC401 MB90F882PF-G-103E1 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	CYRIL_SEL	I	Cyril select signal input (L: No cyril select)
2	B-OUT_SEL	I	Black out setting signal input (L: No black out)
3	COL_SW_SEL	I	Key illumination initial color setting signal input (L: Amber)
4	ILLUMI_SEL	I	Key illumination voltage setting signal input (H: 10.4 V)
5, 6	NCO	O	Not used. (Open)
7	NOSE_SW	I	Front panel detach detect signal input
8 to 10	NCO	O	Not used. (Open)
11	RE_IN0	I	Rotary encoder signal input 0
12	RE_IN1	I	Rotary encoder signal input 1
13	X_OUT	O	Low speed operation clock signal output (32.768 kHz)
14	X_IN	I	Low speed operation clock signal input (32.768 kHz)
15	VCC	—	Power supply pin (+3.3 V)
16	VSS	—	Ground
17	C	—	Regulator reference capacitor connecting pin
18	UNISI	I	SONY-BUS data input Not used.
19	UNISO	O	SONY-BUS data output Not used. (Open)
20	UNISCK	O	SONY-BUS clock signal output Not used. (Open)
21	USB_ON	O	USB over current detect IC control signal output
22	I2C_SIO	I/O	I2C serial data input/output
23	I2C_SCK	O	I2C serial clock signal output
24	USB_OVER	I	USB over current detect signal input
25	BUS_ON	O	BUS ON signal output Not used. (Fixed at L is this set.)
26	SYS_RST	O	System reset signal output
27	CD_ON	I	CD mechanism servo power supply control request signal input
28	CDM_ON	I	CD mechanism deck power supply control request signal input
29	ACC_IN	I	Accessory power supply detect signal input
30	TEL_ATT	I	Telephone attenuator detect signal input (Except E model)
31	ATT	O	Audio mute control signal output
32	AVCC	—	A/D converter power supply pin (+3.3 V)
33	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
34	RC_IN1	I	Rotary commander shift key signal input 1
35	AVSS	—	Ground for A/D converter
36	QUALITY	I	Not used. (Open)
37	VSM	I	S meter voltage detect signal input
38	SA_IN	I	Spectrum analyzer DC input Not used. (Open)
39	KEY_IN1	I	Key signal input 1
40	KEY_IN0	I	Key signal input 0
41	RC_IN0	I	Rotary commander shift key signal input 0
42, 43	NCO	O	Not used. (Open)
44	VSS	—	Ground
45	KEY_ACK0	I	Key acknowledge detect signal input (Rotary commander)
46	KEY_ACK1	I	Key acknowledge detect signal input (Front panel)
47	EXTATT_XEN	O	L is sent when electronic volume IC has the status of CD/USB (H is sent when it has the status of other source)
48	LCD_CE	O	LCD driver chip enable signal output
49	LCD_SO	O	LCD driver serial data output
50	LCD_SCK	O	LCD driver serial clock signal output
51	MD2	I	Micon operation mode setting signal input (active: L)
52	MD1	I	Micon operation mode setting signal input (Fixed at H in this set)
53	MD0	I	Micon operation mode setting signal input (active: H)
54	RESET	I	Reset signal input
55	AREA_SEL2	I	Destination setting pin 2 (Fixed at L in except E model, Frequency select switch signal input in E model)
56	AREA_SEL1	I	Destination setting pin 1 (L: Except Russian model, H: Russian model)

Pin No.	Pin Name	I/O	Description
57	AREA_SEL0	I	Destination setting pin 0 (L: E model, H: Except E model)
58	WAKE_UP	O	CD mechanism deck micon wake up signal output
59	MC_RX	I	MC-BUS communication and CD mechanism deck micon communication RX input
60	MC_TX	O	MC-BUS communication and CD mechanism deck micon communication TX output
61	CLK_IN	I	Flash programming serial clock signal input
62	Z_MUTE	I	Z mute signal input
63	NCO	O	Not used. (Open)
64	TEST	O	Not used. (Open)
65	VCC	—	Power supply pin (+3.3 V)
66	VSS	—	Ground
67	NCO	O	Not used. (Open)
68	AMP_STB	O	Standby signal output for power regulator IC
69	DIAG	I	Condition signal input from power amp IC
70	VBUS_ON	I	VBUS power supply control signal input (L: VBUS OFF, H: VBUS ON)
71	SA_OUT	O	Spectrum analyzer serial data output
72	SA_CLK	O	Spectrum analyzer serial clock signal output
73	NCO	O	Not used. (Open)
74	TU_ATT	O	Tuner mute control signal output (Not used in this set)
75	NSMASK	O	Not used. (Open)
76	RDS_ON	O	RDS IC power supply control signal output Not used. (Open)
77	FLASH_EN0	I	Flash writer programming wake up signal input (Fixed at L)
78	FLASH_EN1	I	Flash writer programming wake up signal input
79 to 81	NCO	O	Not used. (Open)
82	TU_ATTIN	O	Not used. (Open)
83	BU_CHECK	I	Back up power supply detect signal input
84	EQ TYPE_SEL	I	EQ type select signal input (Fixed at L)
85 to 89	NCO	O	Not used. (Open)
90	VCC	—	Power supply pin (+3.3 V)
91	VSS	—	Ground
92	OSC_OUT	O	High speed operation clock signal output (7.92 MHz)
93	OSC_IN	I	High speed operation clock signal input (7.92 MHz)
94	NCO	O	Not used. (Open)
95	SIRCS	I	Remote control signal input
96	NCO	O	Not used. (Open)
97	BEEP	O	Beep signal output for power amplifier IC
98	ZAPPIN	O	Zappin beep signal output
99	SYNC_OUT	O	DC/DC converter oscillation frequency control signal output
100	DD_ON	O	DC/DC converter power supply ON/OFF control signal output

SECTION 5
EXPLODED VIEWS

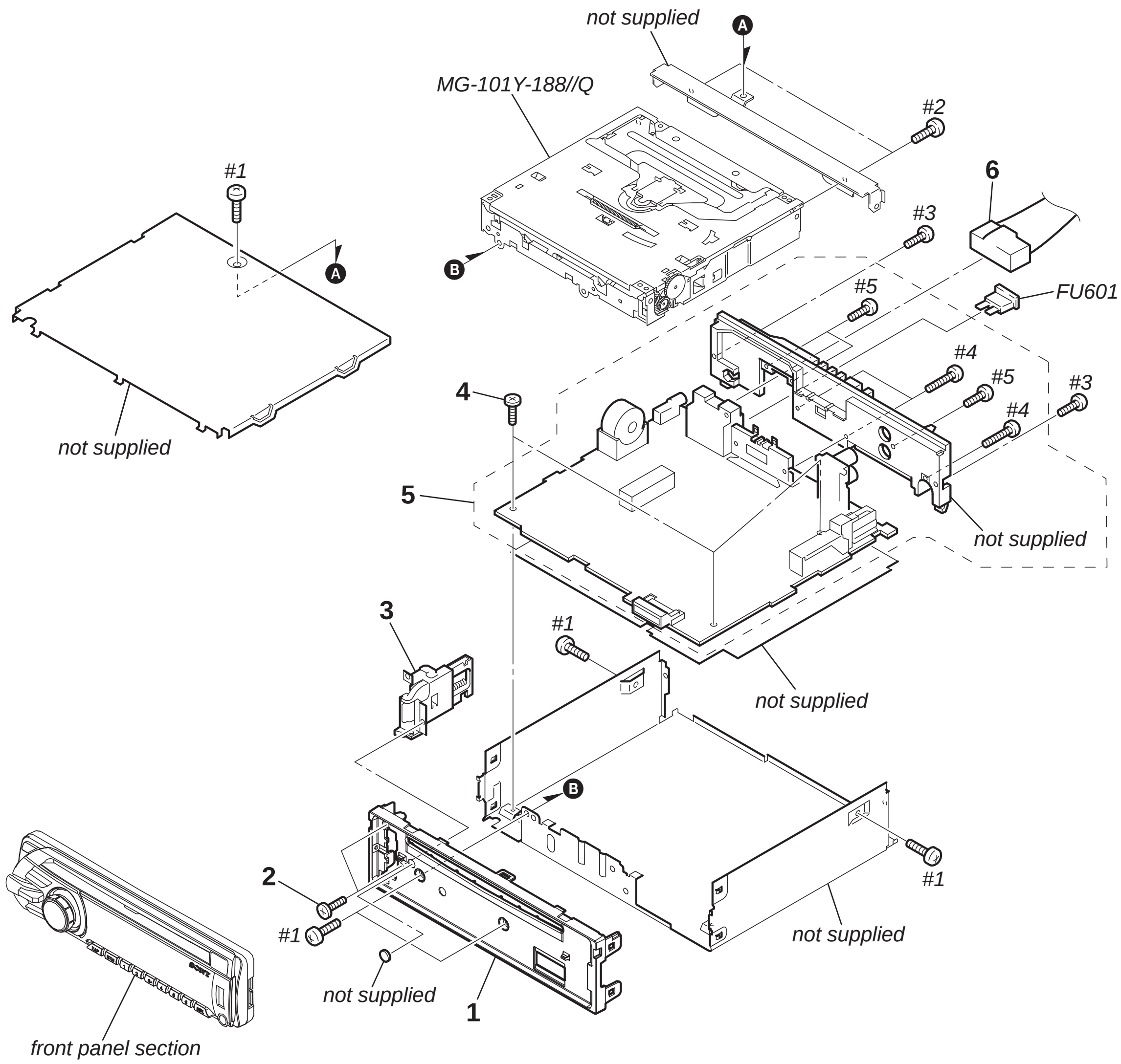
Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  RU : Russian model
  AR : Argentina model

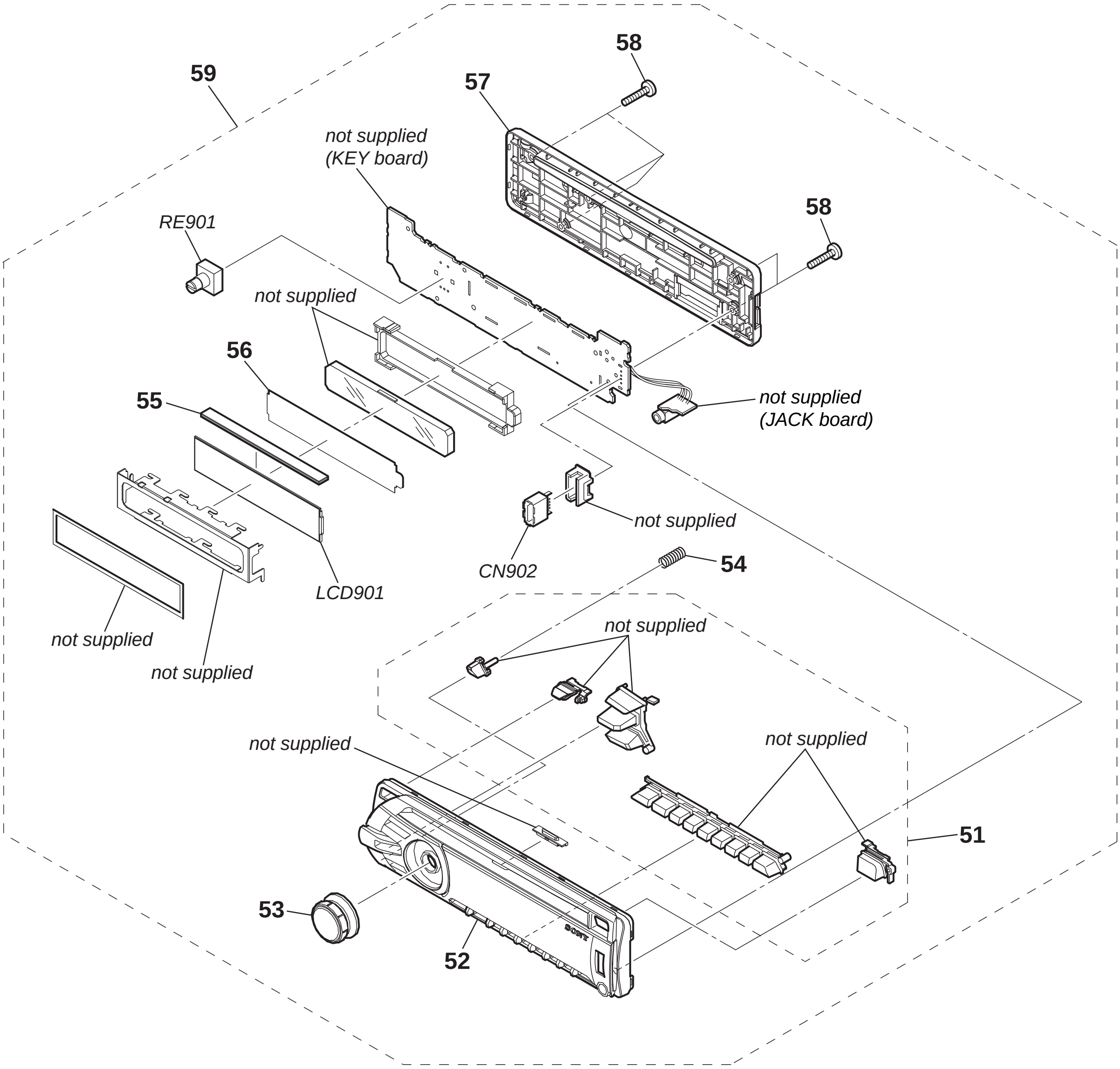
5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-2320-690-3	PANEL ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	X-2179-399-1	LOCK ASSY (S)	
4	2-050-124-02	SCREW +BTT 2.6X5	
5	A-1738-025-A	MAIN BOARD, COMPLETE (AEP,UK)	
5	A-1738-283-A	MAIN BOARD, COMPLETE (GT35U:RU)	
5	A-1738-284-A	MAIN BOARD, COMPLETE (GT39UE)	
5	A-1738-285-A	MAIN BOARD, COMPLETE (E,AR)	
6	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AR)	
6	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,RU)	

Ref. No.	Part No.	Description	Remark
6	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (E)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

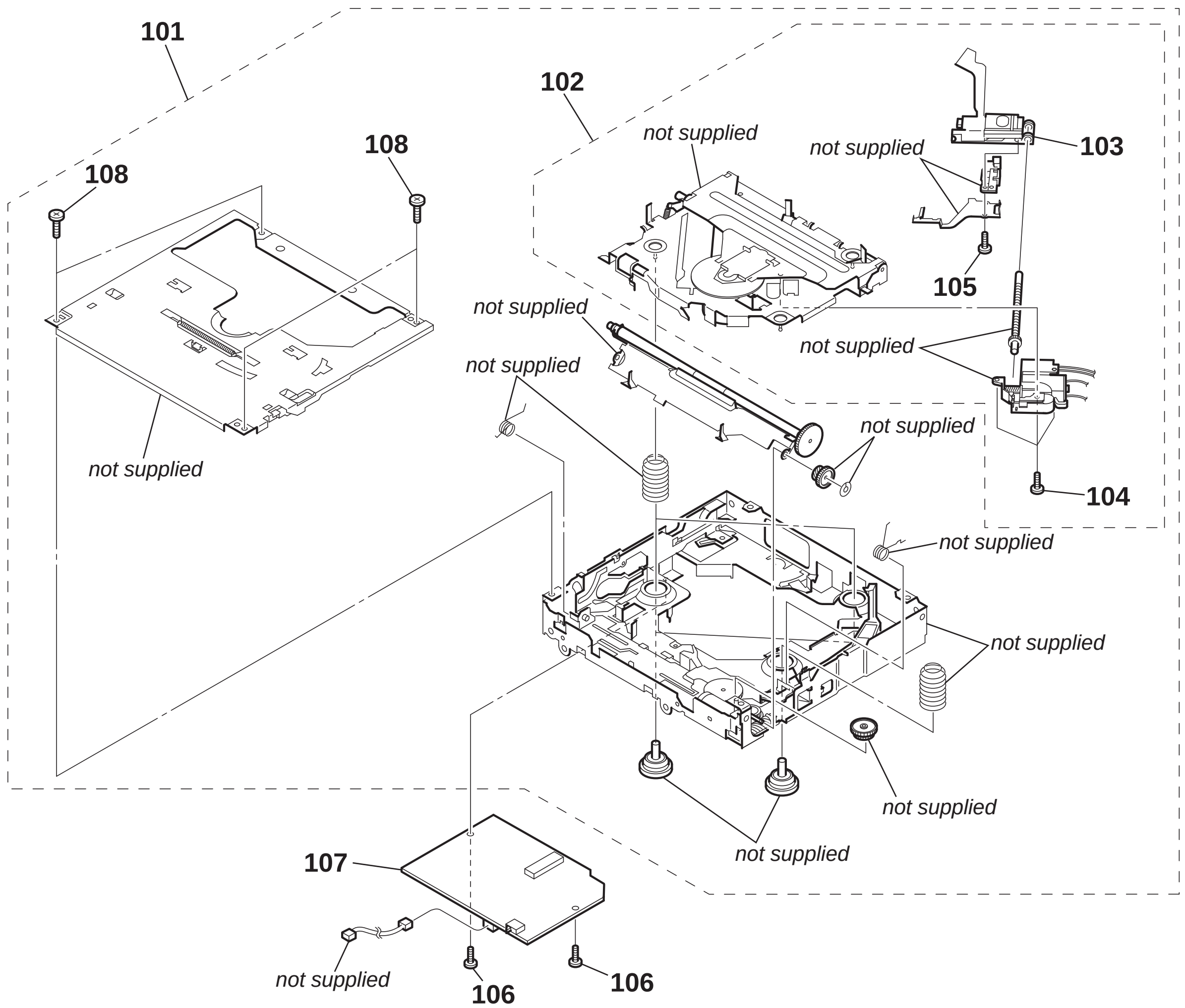
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2320-608-1	BUTTON ASSY (S) (AEP,UK,RU)	
51	X-2342-501-1	BUTTON ASSY (S) (E,AR)	
52	X-2514-658-1	PANEL (SV) ASSY, FRONT (GT35U:AEP,UK,RU)	
52	X-2514-736-1	PANEL (SV) ASSY, FRONT (GT39U)	
52	X-2514-737-1	PANEL (SV) ASSY, FRONT (GT39UE)	
52	X-2514-738-1	PANEL (SV) ASSY, FRONT (GT35U:E,AR)	
53	X-2319-728-1	KNOB (VOL) (SV) ASSY	
54	2-639-881-01	SPRING (RELEASE)	
55	1-780-659-21	CONNECTOR (RUBBER)	
56	4-157-873-02	ILLUMINATOR (LCD)	
57	3-876-858-02	PANEL, BACK	

Ref. No.	Part No.	Description	Remark
58	3-250-543-21	SCREW (+B P-TITE M2)	
59	A-1737-741-A	PANEL COMPLETE ASSY, FRONT (GT35U:AEP,UK,RU)	
59	A-1738-294-A	PANEL COMPLETE ASSY, FRONT (GT39U)	
59	A-1738-295-A	PANEL COMPLETE ASSY, FRONT (GT39UE)	
59	A-1738-296-A	PANEL COMPLETE ASSY, FRONT (GT35U:E,AR)	
CN902	1-820-858-21	CONNECTOR, USB (SOCKET) 4P (USB)	
LCD901	1-802-991-11	DISPLAY PANEL, LIQUID CRYSTAL	
RE901	1-479-902-32	ENCODER, ROTARY (PUSH ENTER/SELECT,VOLUME)	

5-3. CD MECHANISM SECTION (MG-101Y-188//Q)



Ref. No.	Part No.	Description	Remark
101	A-1313-179-A	MECHANICAL BLOCK (U) ASSY (08)	
102	A-1284-705-A	DAXEV08//Q	
⚠ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
104	2-626-869-31	SCREW (M2X3), SERRATION	
105	3-686-458-21	SCREW (P1.4), TAPPING	
106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
107	A-1555-002-A	SERVO BOARD, COMPLETE	
108	2-134-636-71	SCREW (M1.7X2.5)	

SECTION 6
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . , uPA. . , μPA. . ,
  uPB. . : μPB. . , uPC. . , μPC. . ,
  uPD. . : μPD. .

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- Abbreviation
  RU : Russian model
  AR : Argentina model

Ref. No.	Part No.	Description	Remark
		JACK BOARD	
		**********	
		< FERRITE BEAD >	
FB901	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB902	1-414-760-21	INDUCTOR, FERRITE BEAD	
FB903	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< JACK >	
J901	1-819-732-11	JACK (DIA. 3.5) (AUX)	
***			
		KEY BOARD	
		*********	
	1-780-659-21	CONNECTOR (RUBBER)	
	4-157-873-02	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C902	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C904	1-125-891-11	CERAMIC CHIP 0.47uF 10% 10V	
C906	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
		< CONNECTOR >	
CN901	1-820-619-11	PLUG, CONNECTOR 20P	
CN902	1-820-858-21	CONNECTOR, USB (SOCKET) 4P (USB)	
		< DIODE >	
D901	6-501-193-01	DIODE 1SS355WTE-17	
D902	6-501-730-01	DIODE MAZ8051GMLS0	
D906	6-501-782-01	DIODE MAZ8180GMLS0	
D907	6-501-743-01	DIODE MAZ8068GMLS0	
D908	6-501-743-01	DIODE MAZ8068GMLS0	
D909	6-501-743-01	DIODE MAZ8068GMLS0	
D910	6-501-743-01	DIODE MAZ8068GMLS0	
D911	6-501-743-01	DIODE MAZ8068GMLS0	
D912	6-501-743-01	DIODE MAZ8068GMLS0	
		< IC >	
IC901	6-714-396-01	IC LC75829PWH-US-H	
IC902	6-600-629-01	IC RS-470 (IR)	
		< COIL >	
L901	1-457-223-11	COIL, COMMON MODE CHOKE	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-802-991-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT)	
LED907	6-502-875-01	LED SML-310PTT86TK (OFF) (GT39U/GT39UE)	
LED907	6-502-877-01	LED SML-310VTT86TJ (OFF) (GT35U)	
LED911	6-502-875-01	LED SML-310PTT86TK (SOURCE) (GT39U/GT39UE)	
LED911	6-502-877-01	LED SML-310VTT86TJ (SOURCE) (GT35U)	
LED913	6-502-875-01	LED SML-310PTT86TK (SOURCE) (GT39U/GT39UE)	
LED913	6-502-877-01	LED SML-310VTT86TJ (SOURCE) (GT35U)	
LED914	6-502-875-01	LED SML-310PTT86TK (SEEK+ ▶▶I ▶▶) (GT39U/GT39UE)	
LED914	6-502-877-01	LED SML-310VTT86TJ (SEEK+ ▶▶I ▶▶) (GT35U)	
LED915	6-502-875-01	LED SML-310PTT86TK (↩) (GT39U/GT39UE)	
LED915	6-502-877-01	LED SML-310VTT86TJ (↩) (GT35U)	
LED918	6-502-875-01	LED SML-310PTT86TK (MODE) (GT39U/GT39UE)	
LED918	6-502-877-01	LED SML-310VTT86TJ (MODE) (GT35U)	
LED924	6-502-875-01	LED SML-310PTT86TK (MODE) (GT39U/GT39UE)	
LED924	6-502-877-01	LED SML-310VTT86TJ (MODE) (GT35U)	
LED925	6-502-875-01	LED SML-310PTT86TK (🔍) (GT39U/GT39UE)	
LED925	6-502-877-01	LED SML-310VTT86TJ (🔍) (GT35U)	
LED930	6-502-875-01	LED SML-310PTT86TK (🔍) (GT39U/GT39UE)	
LED930	6-502-877-01	LED SML-310VTT86TJ (🔍) (GT35U)	
LED931	6-502-875-01	LED SML-310PTT86TK (◀◀ I◀◀ SEEK–) (GT39U/GT39UE)	
LED931	6-502-877-01	LED SML-310VTT86TJ (◀◀ I◀◀ SEEK–) (GT35U)	
		< SWITCH >	
LSW901	1-786-805-13	SWITCH, TACTILE (WITH LED) (⏏) (GT35U)	
LSW901	1-786-806-13	SWITCH, TACTILE (WITH LED) (⏏) (GT39U/GT39UE)	
LSW905	1-786-805-13	SWITCH, TACTILE (WITH LED) (DSPL/SCRL) (GT35U)	
LSW905	1-786-806-13	SWITCH, TACTILE (WITH LED) (DSPL/SCRL) (GT39U/GT39UE)	
LSW906	1-786-805-13	SWITCH, TACTILE (WITH LED) (6/PAUSE) (GT35U)	
LSW906	1-786-806-13	SWITCH, TACTILE (WITH LED) (6/PAUSE) (GT39U/GT39UE)	

KEY

Ref. No.	Part No.	Description				Remark
LSW907	1-786-805-13	SWITCH, TACTILE (WITH LED) (5/DM+)				(GT35U)
LSW907	1-786-806-13	SWITCH, TACTILE (WITH LED) (5/DM+)				(GT39U/GT39UE)
LSW908	1-786-805-13	SWITCH, TACTILE (WITH LED) (4/SHUF)				(GT35U)
LSW908	1-786-806-13	SWITCH, TACTILE (WITH LED) (4/SHUF)				(GT39U/GT39UE)
LSW909	1-786-805-13	SWITCH, TACTILE (WITH LED) (3/REP)				(GT35U)
LSW909	1-786-806-13	SWITCH, TACTILE (WITH LED) (3/REP)				(GT39U/GT39UE)
LSW910	1-786-805-13	SWITCH, TACTILE (WITH LED) (2/ALBM +)				(GT35U)
LSW910	1-786-806-13	SWITCH, TACTILE (WITH LED) (2/ALBM +)				(GT39U/GT39UE)
LSW911	1-786-805-13	SWITCH, TACTILE (WITH LED) (1/ALBM -)				(GT35U)
LSW911	1-786-806-13	SWITCH, TACTILE (WITH LED) (1/ALBM -)				(GT39U/GT39UE)
LSW912	1-786-805-13	SWITCH, TACTILE (WITH LED) (AF/TA/PTY)				(GT35U:AEP,UK,RU)
LSW912	1-786-805-13	SWITCH, TACTILE (WITH LED) (BTM)				(GT35U:E)
LSW912	1-786-806-13	SWITCH, TACTILE (WITH LED) (AF/TA/PTY)				(GT39U/GT39UE)
LSW913	1-786-805-13	SWITCH, TACTILE (WITH LED) (ZAP) (GT35U)				
LSW913	1-786-806-13	SWITCH, TACTILE (WITH LED) (ZAP)				(GT39U/GT39UE)
		< TRANSISTOR >				
Q901	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				
Q902	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				
Q907	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				
		< RESISTOR >				
R904	1-216-857-11	METAL CHIP	1M	5%	1/10W	
R905	1-216-809-11	METAL CHIP	100	5%	1/10W	
R906	1-216-811-11	METAL CHIP	150	5%	1/10W	
R907	1-216-811-11	METAL CHIP	150	5%	1/10W	
R908	1-216-812-11	METAL CHIP	180	5%	1/10W	
R909	1-216-812-11	METAL CHIP	180	5%	1/10W	
R910	1-216-812-11	METAL CHIP	180	5%	1/10W	
R911	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R914	1-216-864-11	SHORT CHIP	0			
R920	1-216-820-11	METAL CHIP	820	5%	1/10W	
R921	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R922	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R923	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R924	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R925	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R926	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R927	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R928	1-216-820-11	METAL CHIP	820	5%	1/10W	
R929	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R930	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R931	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R932	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R933	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R934	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R935	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT39U/GT39UE)

Ref. No.	Part No.	Description				Remark
R935	1-216-812-11	METAL CHIP	180	5%	1/10W	(GT35U)
R936	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT35U)
R936	1-216-031-00	METAL CHIP	180	5%	1/10W	(GT39U/GT39UE)
R939	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R939	1-216-033-00	METAL CHIP	220	5%	1/10W	(GT35U)
R940	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R940	1-216-031-00	METAL CHIP	180	5%	1/10W	(GT35U)
R943	1-216-022-00	METAL CHIP	75	5%	1/10W	(GT39U/GT39UE)
R943	1-216-025-11	METAL CHIP	100	5%	1/10W	(GT35U)
R944	1-216-021-00	METAL CHIP	68	5%	1/10W	(GT39U/GT39UE)
R944	1-216-025-11	METAL CHIP	100	5%	1/10W	(GT35U)
R947	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R947	1-216-033-00	METAL CHIP	220	5%	1/10W	(GT35U)
R948	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R948	1-216-031-00	METAL CHIP	180	5%	1/10W	(GT35U)
R951	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R951	1-216-033-00	METAL CHIP	220	5%	1/10W	(GT35U)
R952	1-216-029-00	METAL CHIP	150	5%	1/10W	(GT39U/GT39UE)
R952	1-216-031-00	METAL CHIP	180	5%	1/10W	(GT35U)
R955	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT35U)
R955	1-218-285-11	METAL CHIP	75	5%	1/10W	(GT39U/GT39UE)
R959	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT39U/GT39UE)
R959	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT35U)
R963	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT35U)
R963	1-218-285-11	METAL CHIP	75	5%	1/10W	(GT39U/GT39UE)
R964	1-216-807-11	METAL CHIP	68	5%	1/10W	(GT39U/GT39UE)
R964	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT35U)
R967	1-216-809-11	METAL CHIP	100	5%	1/10W	(GT35U)
R967	1-218-285-11	METAL CHIP	75	5%	1/10W	(GT39U/GT39UE)
R968	1-216-021-00	METAL CHIP	68	5%	1/10W	(GT39U/GT39UE)
R968	1-216-025-11	METAL CHIP	100	5%	1/10W	(GT35U)
R986	1-216-864-11	SHORT CHIP	0			
R987	1-216-864-11	SHORT CHIP	0			
R988	1-216-809-11	METAL CHIP	100	5%	1/10W	
R989	1-216-809-11	METAL CHIP	100	5%	1/10W	

Ref. No.	Part No.	Description			Remark
R990	1-216-809-11	METAL CHIP	100	5%	1/10W
R991	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R992	1-216-833-11	METAL CHIP	10K	5%	1/10W
R993	1-216-833-11	METAL CHIP	10K	5%	1/10W
R996	1-216-833-11	METAL CHIP	10K	5%	1/10W
R998	1-216-864-11	SHORT CHIP	0		
		< NETWORK RESISTOR >			
RB901	1-239-662-81	RESISTOR, NETWORK 10X2			
		< ROTARY ENCODER >			
RE901	1-479-902-32	ENCODER, ROTARY (PUSH ENTER/SELECT,VOLUME)			
		< SWITCH >			
S902	1-786-653-21	SWITCH, TACTILE (◀◀ I◀◀ SEEK–)			
S903	1-786-653-21	SWITCH, TACTILE (🔍)			
S904	1-786-653-21	SWITCH, TACTILE (MODE)			
S905	1-786-653-21	SWITCH, TACTILE (SEEK+ ▶▶I ▶▶)			
S906	1-786-653-21	SWITCH, TACTILE (SOURCE)			
S907	1-786-653-21	SWITCH, TACTILE (OFF)			
S908	1-786-653-21	SWITCH, TACTILE (↩)			
		< VARISTOR >			
VDR900	1-804-988-21	VARISTOR, CHIP (1608)			
VDR901	1-804-988-21	VARISTOR, CHIP (1608)			
VDR903	1-804-988-21	VARISTOR, CHIP (1608)			
VDR906	1-804-988-21	VARISTOR, CHIP (1608)			
VDR908	1-804-988-21	VARISTOR, CHIP (1608)			

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Ref. No.	Part No.	Description			Remark
	A-1738-025-A	MAIN BOARD, COMPLETE (AEP,UK)			
	A-1738-283-A	MAIN BOARD, COMPLETE (GT35U:RU)			
	A-1738-284-A	MAIN BOARD, COMPLETE (GT39UE)			
	A-1738-285-A	MAIN BOARD, COMPLETE (E,AR)			
		********************			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C1	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C6	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C8	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C9	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C13	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V
C16	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C17	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C18	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C19	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C20	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C21	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C26	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C27	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C28	1-126-947-11	ELECT	47uF	20%	35V

Ref. No.	Part No.	Description			Remark
C101	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C103	1-126-961-11	ELECT	2.2uF	20%	50V
C104	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C105	1-126-960-11	ELECT	1uF	20%	50V
C106	1-126-964-11	ELECT	10uF	20%	50V
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C108	1-126-964-11	ELECT	10uF	20%	50V
C109	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C110	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C111	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C112	1-126-964-11	ELECT	10uF	20%	50V
C113	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C114	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C115	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C116	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C201	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C203	1-126-961-11	ELECT	2.2uF	20%	50V
C204	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C205	1-126-960-11	ELECT	1uF	20%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C209	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C210	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C211	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C212	1-126-964-11	ELECT	10uF	20%	50V
C213	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C214	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C215	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C217	1-126-964-11	ELECT	10uF	20%	50V
C301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C303	1-128-551-11	ELECT	22uF	20%	63V
C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C305	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C306	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C307	1-124-589-11	ELECT	47uF	20%	16V
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-124-233-11	ELECT	10uF	20%	16V
C311	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C312	1-124-233-11	ELECT	10uF	20%	16V
C313	1-124-233-11	ELECT	10uF	20%	16V
C314	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C315	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C316	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C317	1-126-934-11	ELECT	220uF	20%	16V
C318	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C319	1-126-964-11	ELECT	10uF	20%	50V
C322	1-126-947-11	ELECT	47uF	20%	35V
C323	1-126-961-11	ELECT	2.2uF	20%	50V
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-128-057-11	ELECT	330uF	20%	6.3V
C404	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C405	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C409	1-126-926-11	ELECT	1000uF	20%	10V
C411	1-126-924-11	ELECT	330uF	20%	10V

Ref. No.	Part No.	Description				Remark
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C418	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C419	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	
C420	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	
C421	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C422	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C424	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C425	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C426	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C427	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C428	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C429	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C433	1-124-589-11	ELECT	47uF	20%	16V	
C434	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C435	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C436	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C502	1-165-727-31	ELECT	120uF	20%	16V	
C503	1-100-352-91	CERAMIC CHIP	1uF	20%	16V	
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C505	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C506	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C507	1-100-352-91	CERAMIC CHIP	1uF	20%	16V	
C508	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
C509	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C514	1-126-924-11	ELECT	330uF	20%	10V	
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C518	1-126-934-11	ELECT	220uF	20%	16V	
C519	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C520	1-124-584-00	ELECT	100uF	20%	10V	
C521	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	
C523	1-104-665-11	ELECT	100uF	20%	25V	
C524	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C701	1-124-584-00	ELECT	100uF	20%	10V	
C702	1-124-234-00	ELECT	22uF	20%	16V	
C703	1-124-233-11	ELECT	10uF	20%	16V	
C704	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C706	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C707	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C803	1-100-385-91	CERAMIC CHIP	0.47uF		25V	
C804	1-100-385-91	CERAMIC CHIP	0.47uF		25V	
C805	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V	
C806	1-163-009-91	CERAMIC CHIP	0.001uF	10%	50V	
C807	1-112-302-11	ELECT	3300uF	20%	16V	
C808	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C810	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C811	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
C812	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C813	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
C815	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
* CN401	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				
CN403	1-820-622-21	SOCKET, CONNECTOR 20P				
CN501	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
CN701	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P				

Ref. No.	Part No.	Description	Remark
CN802	1-774-701-21	PIN, CONNECTOR 16P	
		< DIODE >	
D101	1-805-043-11	ABSORBER, CHIP SURGE	
D104	6-502-643-01	DIODE 1A4-A2	
D105	6-502-643-01	DIODE 1A4-A2	
D201	1-805-043-11	ABSORBER, CHIP SURGE	
D204	6-502-643-01	DIODE 1A4-A2	
D205	6-502-643-01	DIODE 1A4-A2	
D301	8-719-978-33	DIODE DTZ-TT11-6.8B	
D302	6-502-643-01	DIODE 1A4-A2	
D303	6-502-643-01	DIODE 1A4-A2	
D304	6-502-643-01	DIODE 1A4-A2	
D305	6-502-643-01	DIODE 1A4-A2	
D306	6-501-817-01	DIODE MA2J1110GLS0	
D308	6-501-817-01	DIODE MA2J1110GLS0	
D309	6-501-817-01	DIODE MA2J1110GLS0	
D401	6-502-131-01	DIODE LRB751V-40T1G	
D403	6-501-743-01	DIODE MAZ8068GMLS0	
D404	6-501-743-01	DIODE MAZ8068GMLS0	
D410	6-501-743-01	DIODE MAZ8068GMLS0	
D411	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
D502	6-501-817-01	DIODE MA2J1110GLS0	
D503	6-501-768-01	DIODE MAZ8120GMLS0	
D504	6-501-657-01	DIODE MA24D5000BS0	
D505	6-501-734-01	DIODE MAZ8056GMLS0	
D510	6-501-718-01	DIODE MAZ8039GLLS0	
D511	6-501-817-01	DIODE MA2J1110GLS0	
D512	6-501-817-01	DIODE MA2J1110GLS0	
D701	6-501-656-01	DIODE LBAT54ALT1G	
D806	6-501-747-01	DIODE MAZ8075GMLS0	
D807	6-501-782-01	DIODE MAZ8180GMLS0	
D808	6-501-782-01	DIODE MAZ8180GMLS0 (AEP,UK,RU)	
D809	6-501-782-01	DIODE MAZ8180GMLS0	
D810	6-501-782-01	DIODE MAZ8180GMLS0	
D811	6-501-782-01	DIODE MAZ8180GMLS0	
D812	6-501-571-01	DIODE 1N5404-C311-3	
D813	6-502-643-01	DIODE 1A4-A2 (AEP,UK)	
		< FUSE >	
F501	1-576-416-21	FUSE, MICRO (1608 TYPE) 2A	
		< FERRITE BEAD >	
FB101	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB201	1-400-334-21	FERRITE, EMI (SMD) (1608)	
FB301	1-469-876-11	INDUCTOR, FERRITE BEAD	
FB701	1-469-844-11	INDUCTOR 2.2uH	
FB702	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB705	1-414-228-11	INDUCTOR, FERRITE BEAD	
FB707	1-414-228-11	INDUCTOR, FERRITE BEAD	
		< IC >	
IC001	6-714-162-01	IC TEF6617T/V1/S470,518 (E,RU,AR)	
IC001	6-714-162-11	IC TEF6617T/V1/S470/M5,518 (AEP,UK)	
IC301	6-705-359-02	IC TDA8588AJ/N2/R1 (E,AR)	
IC301	6-705-362-02	IC TDA8589AJ/N2/R1 (RU)	
IC301	6-705-362-11	IC TDA8589AJ/N2/R1/M5 (AEP,UK)	
IC401	6-714-637-01	IC MB90F882PF-G-103E1	
IC402	6-702-302-01	IC TK11133CSCL-G	
IC403	6-712-776-01	IC PST8228UL	

MAIN

Ref. No.	Part No.	Description		Remark
IC501	6-710-965-01	IC TPS40200DRG4		
IC503	6-709-213-01	IC NJM2387ADL3(TE2)		
IC804	6-714-420-01	IC BD3705FV-E2		
		< JACK >		
J1	1-815-185-13	JACK (ANTENNA)		
J303	1-774-698-41	JACK, PIN 2P (REAR/SUB AUDIO OUT)		
J801	1-566-822-81	JACK (REMOTE IN) (AEP,UK,RU)		
		< JUMPER RESISTOR >		
JC100	1-216-296-11	SHORT CHIP	0	
JC101	1-216-295-91	SHORT CHIP	0	
JC102	1-216-296-11	SHORT CHIP	0	
JC103	1-216-296-11	SHORT CHIP	0	
JC104	1-216-296-11	SHORT CHIP	0	
JC105	1-216-295-91	SHORT CHIP	0	
JC106	1-216-864-11	SHORT CHIP	0	
JC107	1-216-295-91	SHORT CHIP	0	
JC108	1-216-864-11	SHORT CHIP	0	
JC109	1-216-864-11	SHORT CHIP	0	
JC110	1-216-864-11	SHORT CHIP	0	
JC111	1-216-296-11	SHORT CHIP	0	
JC112	1-216-296-11	SHORT CHIP	0	
JC113	1-216-296-11	SHORT CHIP	0	
JC114	1-216-296-11	SHORT CHIP	0	
JC115	1-216-864-11	SHORT CHIP	0	
JC116	1-216-296-11	SHORT CHIP	0	
JC117	1-216-295-91	SHORT CHIP	0	
JC118	1-216-295-91	SHORT CHIP	0	
JC119	1-216-296-11	SHORT CHIP	0	
JC120	1-216-296-11	SHORT CHIP	0	
JC121	1-216-295-91	SHORT CHIP	0	
JC122	1-216-295-91	SHORT CHIP	0	
JC123	1-216-296-11	SHORT CHIP	0	
JC124	1-216-296-11	SHORT CHIP	0	
JC125	1-216-864-11	SHORT CHIP	0	
JC126	1-216-295-91	SHORT CHIP	0	
JC127	1-216-295-91	SHORT CHIP	0	
JC128	1-216-295-91	SHORT CHIP	0	
JC129	1-216-295-91	SHORT CHIP	0	
JC130	1-216-864-11	SHORT CHIP	0	
JC131	1-216-296-11	SHORT CHIP	0	
JC132	1-216-296-11	SHORT CHIP	0	
JC133	1-216-296-11	SHORT CHIP	0	
		< COIL >		
L1	1-414-180-51	INDUCTOR	3.3uH	
L2	1-410-501-61	INDUCTOR	2.2uH	
L6	1-457-817-11	COIL (FM MIX)		
L7	1-481-285-51	INDUCTOR	560uH	
L8	1-481-285-51	INDUCTOR	560uH	
L301	1-469-844-11	INDUCTOR	2.2uH	
L501	1-411-595-21	COIL, CHOKE	47uH	
L502	1-406-718-21	COIL, CHOKE	68uH	
L503	1-412-525-31	INDUCTOR	10uH	
L801	1-456-617-11	COIL, CHOKE		
		< TRANSISTOR >		
Q102	6-551-856-01	TRANSISTOR	LTC614TKFP8T146	
Q103	8-729-027-44	TRANSISTOR	DTC114TKA-T146	

Ref. No.	Part No.	Description				Remark
Q104	6-551-856-01	TRANSISTOR	LTC614TKFP8T146			
Q202	6-551-856-01	TRANSISTOR	LTC614TKFP8T146			
Q203	8-729-027-44	TRANSISTOR	DTC114TKA-T146			
Q204	6-551-856-01	TRANSISTOR	LTC614TKFP8T146			
Q303	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q304	8-729-027-23	TRANSISTOR	DTA114EKA-T146			
Q305	8-729-027-23	TRANSISTOR	DTA114EKA-T146			
Q401	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q402	8-729-027-23	TRANSISTOR	DTA114EKA-T146			
Q501	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q502	6-551-923-01	FET	TPC6108(T5RSONYF,M			
Q503	6-550-828-01	FET	RSQ035P03TR			
Q504	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q505	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q701	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q802	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q805	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q806	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			(AEP,UK,RU)
Q807	8-729-027-43	TRANSISTOR	DTC114EKA-T146			
Q808	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
		< RESISTOR >				
R1	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R2	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R3	1-216-864-11	SHORT CHIP	0			
R4	1-216-864-11	SHORT CHIP	0			
R5	1-216-864-11	SHORT CHIP	0			
R6	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R10	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R11	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R12	1-216-009-91	METAL CHIP	22	5%	1/10W	
R13	1-216-809-11	METAL CHIP	100	5%	1/10W	
R14	1-216-809-11	METAL CHIP	100	5%	1/10W	
R15	1-216-864-11	SHORT CHIP	0			
R16	1-216-864-11	SHORT CHIP	0			
R101	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R103	1-216-817-11	METAL CHIP	470	5%	1/10W	
R104	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R106	1-216-813-11	METAL CHIP	220	5%	1/10W	
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R112	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R116	1-216-813-11	METAL CHIP	220	5%	1/10W	
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R201	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R203	1-216-817-11	METAL CHIP	470	5%	1/10W	
R204	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R206	1-216-813-11	METAL CHIP	220	5%	1/10W	
R207	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R212	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R213	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R216	1-216-813-11	METAL CHIP	220	5%	1/10W	
R217	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R222	1-216-864-11	SHORT CHIP	0			
R302	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R303	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R304	1-216-295-91	SHORT CHIP	0			
R306	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R308	1-216-811-11	METAL CHIP	150	5%	1/10W	
R309	1-216-797-11	METAL CHIP	10	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R311	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R313	1-216-801-11	METAL CHIP	22	5%	1/10W	
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R402	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R404	1-216-864-11	SHORT CHIP	0			
R405	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R406	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R408	1-216-864-11	SHORT CHIP	0			
R409	1-216-809-11	METAL CHIP	100	5%	1/10W	
R410	1-216-817-11	METAL CHIP	470	5%	1/10W	
R411	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT35U/GT39U)
R412	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT39UE)
R413	1-216-845-11	METAL CHIP	100K	5%	1/10W	(AEP,UK,RU)
R414	1-216-845-11	METAL CHIP	100K	5%	1/10W	(E,AR)
R416	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R417	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R419	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R420	1-216-809-11	METAL CHIP	100	5%	1/10W	
R421	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R422	1-216-809-11	METAL CHIP	100	5%	1/10W	
R423	1-216-809-11	METAL CHIP	100	5%	1/10W	
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R426	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R427	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R428	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R429	1-216-845-11	METAL CHIP	100K	5%	1/10W	(AEP,UK,RU)
R430	1-216-845-11	METAL CHIP	100K	5%	1/10W	(E,AR)
R431	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R432	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R433	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R434	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R435	1-216-809-11	METAL CHIP	100	5%	1/10W	
R437	1-216-809-11	METAL CHIP	100	5%	1/10W	
R438	1-216-809-11	METAL CHIP	100	5%	1/10W	
R439	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R440	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R441	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R442	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R443	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R444	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R445	1-216-845-11	METAL CHIP	100K	5%	1/10W	(E,AR)
R446	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R447	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R448	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R449	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT39UE)
R450	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT35U:AEP,UK,RU/GT39U)
R451	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT39UE)
R452	1-216-845-11	METAL CHIP	100K	5%	1/10W	(GT35U/GT39U)
R453	1-216-845-11	METAL CHIP	100K	5%	1/10W	(AEP,UK,RU)
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W	(E,AR)

Ref. No.	Part No.	Description				Remark
R455	1-216-809-11	METAL CHIP	100	5%	1/10W	
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R459	1-216-809-11	METAL CHIP	100	5%	1/10W	
R460	1-216-809-11	METAL CHIP	100	5%	1/10W	
R461	1-216-809-11	METAL CHIP	100	5%	1/10W	
R462	1-216-809-11	METAL CHIP	100	5%	1/10W	
R463	1-216-809-11	METAL CHIP	100	5%	1/10W	
R464	1-216-809-11	METAL CHIP	100	5%	1/10W	
R465	1-216-864-11	SHORT CHIP	0			
R466	1-216-864-11	SHORT CHIP	0			
R467	1-216-864-11	SHORT CHIP	0			
R468	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R501	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R502	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R503	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R504	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R505	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R508	1-216-296-11	SHORT CHIP	0			
R510	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R511	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	
R512	1-216-864-11	SHORT CHIP	0			
R514	1-216-851-11	METAL CHIP	330K	5%	1/10W	
R516	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	
R517	1-218-879-11	METAL CHIP	22K	0.5%	1/10W	
R518	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	
R520	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	
R521	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
R523	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R525	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R526	1-216-797-11	METAL CHIP	10	5%	1/10W	
R527	1-216-797-11	METAL CHIP	10	5%	1/10W	
R528	1-216-864-11	SHORT CHIP	0			
R600	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R701	1-216-864-11	SHORT CHIP	0			
R703	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R704	1-216-864-11	SHORT CHIP	0			
R706	1-216-809-11	METAL CHIP	100	5%	1/10W	
R707	1-216-809-11	METAL CHIP	100	5%	1/10W	
R709	1-216-809-11	METAL CHIP	100	5%	1/10W	
R710	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R712	1-216-864-11	SHORT CHIP	0			
R713	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R714	1-216-864-11	SHORT CHIP	0			
R717	1-216-864-11	SHORT CHIP	0			
R801	1-216-864-11	SHORT CHIP	0 (AEP,UK,RU)			
R802	1-216-864-11	SHORT CHIP	0 (AEP,UK,RU)			
R815	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R816	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R817	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R819	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R820	1-216-833-11	METAL CHIP	10K	5%	1/10W	(AEP,UK,RU)
R821	1-216-833-11	METAL CHIP	10K	5%	1/10W	(AEP,UK,RU)
R822	1-216-841-11	METAL CHIP	47K	5%	1/10W	(AEP,UK,RU)
R823	1-249-425-11	CARBON	4.7K	5%	1/4W	
R824	1-216-049-11	METAL CHIP	1K	5%	1/10W	(AEP,UK,RU)
R825	1-216-864-11	SHORT CHIP	0			

Ref. No.	Part No.	Description	Remark
R826	1-216-864-11	SHORT CHIP 0 (AEP,UK,RU)	
R827	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R829	1-216-864-11	SHORT CHIP 0	
R830	1-216-864-11	SHORT CHIP 0	
R831	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R832	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R833	1-216-864-11	SHORT CHIP 0	
		< SWITCH >	
S401	1-786-826-11	SWITCH, TACTILE (RESET)	
S402	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E,AR)	
		< SURGE ABSORBER >	
VR1	1-805-043-11	ABSORBER, CHIP SURGE	
		< VIBRATOR >	
X1	1-814-302-11	QUARTZ CRYSTAL UNIT (4MHz)	
X401	1-814-207-21	VIBRATOR, CERAMIC (7.92MHz)	
X402	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

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Ref. No.	Part No.	Description	Remark
	A-1555-002-A	SERVO BOARD, COMPLETE **********************	

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MISCELLANEOUS
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Ref. No.	Part No.	Description	Remark
6	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AR)	
6	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,RU)	
6	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (E,AR)	
⚠ 103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

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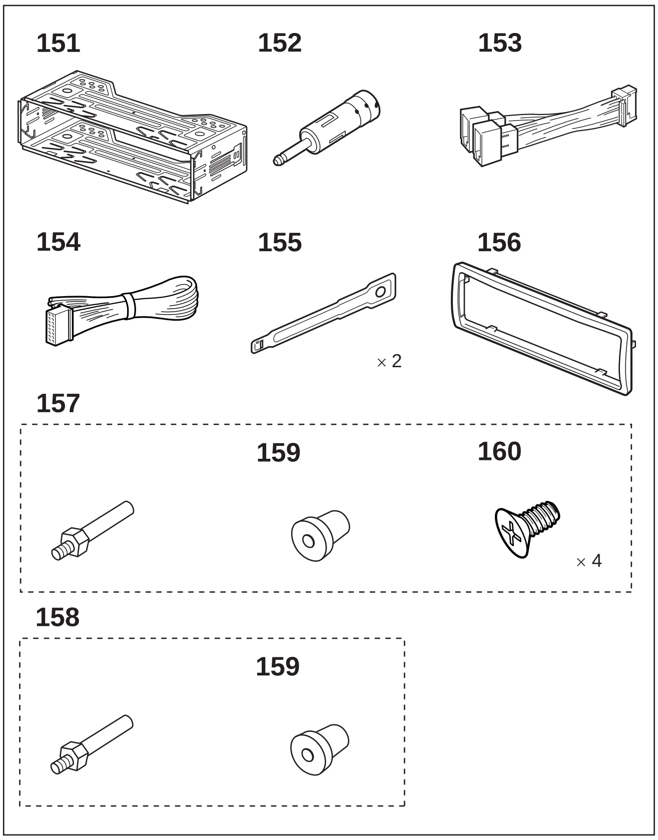
ACCESSORIES
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Ref. No.	Part No.	Description	Remark
	1-479-077-14	REMOTE COMMANDER (RM-X151) (E,AR)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151) (E,AR)	
	4-156-428-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (AEP,UK)	
	4-156-428-21	MANUAL, INSTRUCTION (RUSSIAN,UKRAINIAN) (RU)	
	4-156-428-31	MANUAL, INSTRUCTION (ENGLISH,SPANISH) (E,AR)	
	4-156-429-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK)	
	4-156-429-21	MANUAL, INSTRUCTION, INSTALL (RUSSIAN, UKRAINIAN) (RU)	
	4-156-429-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (E)	
	4-156-429-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH) (AR)	

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PARTS FOR INSTALLATION AND CONNECTIONS
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Ref. No.	Part No.	Description	Remark
151	X-2179-431-2	FRAME ASSY, FITTING	
152	1-465-459-41	ADAPTOR, ANTENNA (AEP,UK,RU,AR)	
153	1-776-527-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AR)	
153	1-831-838-11	CORD (WITH CONNECTOR) (ISO) (POWER) (AEP,UK,RU)	
154	1-833-974-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (E)	
155	3-876-675-01	KEY (FRAME)	
156	3-873-543-02	COLLAR	
157	X-3381-154-1	SCREW ASSY (BS4) (E,AR)	
158	X-3382-926-1	SCREW ASSY (BS) (AEP,UK,RU)	
159	3-349-410-11	BUSHING	
160	3-934-325-01	SCREW, +K (5X8) TAPPING (E,AR)	



REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2009.11	New
1.1	2010.02	Addition of Argentina model of CDX-GT35U.